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1. INTRODUCTION

1.1 Purpose and Scope

This is the Interoperable Catalogue System (ICS) - Valids document. This document was developed under the auspices of the Committee on Earth Observation Satellites (CEOS) - Working Group on Information Systems and Services (WGISS) - Protocol Task Team (PTT). A complete list of organisations participating in the PTT is provided in the PTT Terms of Reference [PTT].

The purpose of this document is to define the lists of controlled keywords (valids) that can be used to query catalogues that are connected with each other in the ICS by the Catalogue Interoperability Protocol (CIP) [CIP-B].

Internationally, several groups exist that are involved in defining valids. The PTT decided not to "re-invent the wheel" but to profit from these efforts by re-using existing controlled lists whenever possible. This also provides the advantage that the ICS Valids will be compatible with these other standards. The sources that have been used to define these valids are referenced in section 3 of this document.

To maintain the ICS valids, standard procedures need to be established. These procedures are described in section 2.4of this document.

1.2 Glossary

1.2.1 Acronyms

CEO	Centre for Earth Observation
CEOS	Committee on Earth Observation Satellites
CIP	Catalogue Interoperability Protocol
DIF	Directory Interchange Format
ECS	EOSDIS Core System
EO	Earth Observation
ESA	European Space Agency
GCMD	Global Change Master Directory
ICS	Interoperable Catalogue System
IMS	Information Management System
ISO	International Standards Organisation
NASA	National Aeronautics And Space Administration
PTT	Protocol Task Team
WGISS	Working Group on Information Systems and Services

1.2.2 Definitions

Catalogue system	A catalogue system provides services such as inventory, browse, directory, order and guide, which may be supplemented by further services, but should contain at a minimum, inventory. The CIP is the protocol that shall enable the many services (but guide) of many catalogue systems to interoperate. Usually a catalogue system resides at a particular agency or data provider facility.

Collection	A grouping of item descriptors that have commonality. A collection consists of a number of attributes that describe the collective contents of the collection, the values of these attributes can then be searched on to select items of interest to the user. Collections also have members; these are the unique identifiers of the items that are grouped by the collection rather than their collective descriptions. As collection members can be identifiers of other collections, a hierarchy[1] of collections and product members can be established, therefore permitting a flexible and powerful organisation of data
Interoperability	### new definition will be inserted after CIP 2.4 completion ###
Interoperable catalogue system	A network of catalogue systems which provide users a view on each other. Each catalogue system is free to decide which collections of other catalogue systems are visible to its users, although some guidelines will have to be followed to ensure compatibility between collections and support commonality. Each individual catalogue system acts as an access point to the Interoperable Catalogue System and is generally served by a Retrieval Manager.
Query	There are two types of query: Search query: a search query can be used to search a number of item descriptors as identified by the target of the query. The query acts as a filter on the item descriptors, therefore producing a more limited list of item descriptors. The matches that are made are returned to the user. A search query is not restricted to a single search query language but the unique names of the item descriptors should be supported by the search query language. Status query: a status query is directed towards a Retrieval Manager to check the status of a previous request, such as an on-going order or an on-going search query. There are other services that can act upon queries, such as cancel query, suspend query, etc., these control the flow of information between user and Retrieval Manager.
Valids	### new definition will be inserted after CIP 2.4 completion ###

1.3 References

[CIP-B] *Catalogue Interoperability Protocol (CIP) Specification - Release B*, CEOS/WGISS/PTT/CIP-B, Issue 2.4, June 1998, Committee on Earth Observation Satellites

[ECS] *ECS Core Metadata Standard Release 2.0*, 420-TP-001-005, December 1994, Hughes Applied Information Systems

[GCMD] *Global Change Master Directory*, NASA/GSFC, http://gcmd.gsfc.nasa.gov/

[PTT] *PTT Terms of Reference*, http://ceos.ccrs.nrcan.gc.ca/taskteam/cip.html

[FGDC] *Contents Standard for Digital Geospatial Metadata*, June 8, 1994, Federal Geographic Data Committee

[CEO] *CEO Metadata Recommendation – Valids*, CEO/US/1400/270, Issue 1.0, 10 March 1998

[IMS] *IMS Metadata home page*, http://harp.gsfc.nasa.gov/v0ims/metadata.html

[ISO-L] *ISO 639 "Code for the representation of names of languages"*

[1] Note that the collection hierarchy is actually a 'directed graph'.

2. Valids

2.1 Relationship to CIP Specification

This document defines the lists of controlled keywords that are available for the search terms (use attributes) that are defined in Annex A.1 of the CIP specification [CIP-B].

The ICS Valids document is an involving document, since it can be expected that over the life time of the ICS the number of controlled lists and the number of search terms belonging to a specific list are likely to increase in order to satisfy arising user needs.

2.2 Valids Background

In order to not “re-invent the wheel”, the PTT decided to re-use existing standards for the ICS Valids. Using existing standards provides the following advantages:

- interoperability with the other systems is facilitated
- the valids are already tested and accepted by users

In the next sub-sections a short description of each of the sources that were used for the ICS Valids is supplied.

2.2.1 Global Change Master Directory (GCMD)

NASA's Global Change Master Directory is a comprehensive source of information about satellite and in situ Earth science data, with broad coverage of the atmosphere, hydrosphere, oceans, solid Earth, and biosphere. The GCMD is the American Co-ordinating Node of the Committee on Earth Observation Satellites International Directory Network (CEOS IDN) and is a participant in the U.S. Global Change Research Program (USGCRP).

Varied types of resources can be accessed through this server which provides flat sets of keywords for Data centres, Locations, Projects or Campaigns, Sensors, Data sources and a four level list of keywords for Parameters. Some elements are controlled more tightly than others, namely Parameters, Location names, Sources and Sensors.

2.2.2 Information Management System (IMS)

The Earth Observing System (EOS), part of NASA's Mission to Planet Earth, is NASA's major contribution to the Global Change Research Program (GCRP). The Data and Information System component (EOSDIS) has been designed as a distributed system to support archival and distribution of data at multiple data centres. These centres are connected by an Information Management System (IMS) which provides an interface for "one stop shopping" for Earth science data, allowing users to search for and order data from multiple data centres in a single session.

This server provides general flat sets of keywords (or filters) for Parameters, Sensors, Data centres and Data sources and detailed flat sets of keywords for Parameters, Data sets, Sensors, Data centres, Data sources, Campaigns, Processing levels, Platforms and Instruments. The IMS has recently adopted the Global Change Master Directory keywords for geophysical parameter as the searchable valids in the system.

2.2.3 ECS

The Earth Observing System Data and Information System (EOSDIS) is a NASA-sponsored open, distributed information system that will manage the data and information from a variety of pre-EOS and EOS-era Earth observation satellites, as well as data from related Earth science field measurement programs and other data essential for the interpretation of these measurements. EOSDIS will provide end-to-end services from EOS instrument data collection to science data processing to full access to EOS and other Earth science data holdings.

The EOSDIS Core System (ECS) is the infrastructure of EOSDIS. ECS will provide scientists and other users a broad range of desk top services from 9 science data centers - known as the Distributed Active Archive Centers (DAACs).

2.2.4 CEO Metadata User Guide

The Centre for Earth Observation (CEO) of the European Commission started activities on metadata as a response to the strong requirement of European EO users. The users mentioned their confusion about the large number of existing initiatives and expressed their wish that CEO provides recommendations about metadata in harmony with the existing programmes.

The CEO metadata approach consists in identifying several types of basic resources, each one being described by a well defined number of information or elements. An element may be simple or compound (with a structure including sub-elements), mandatory or optional depending on the fact that providing a value is mandatory or not, and repeatable or not. Depending on the element type, the assigned value must be selected within a predefined controlled list of keywords [CEO]. This approach is currently used for the development of the CEO's INFEO system

2.2.5 FGDC

The Federal Geographic Data Committee (FGDC) initiated work on the standard in June, 1992, through a forum on geospatial metadata and finalised it by June 1994.

The FGDC standard [FGDC] specifies the information content of metadata for a set of digital geospatial data. The purpose of the standard is to provide a common set of terminology and definitions for concepts related to these metadata. Metadata are data about the content, quality, condition, and other characteristics of data.

The information included in the standard was selected based on four roles that metadata play:

- availability -- data needed to determine the sets of data that exist for a geographic location.
- fitness for use -- data needed to determine if a set of data meets a specific need.
- access -- data needed to acquire an identified set of data.
- transfer -- data needed to process and use a set of data.

2.3 Valids Summary

The table below summarises all search terms (use attributes) for which controlled keywords (valids) are needed in the CIP. A "Y" highlights if the term is searchable: in the product descriptor, the collection descriptor or in both.

Term	Description	Collection Descriptor	Product Descriptor

Term	Description	Collection Descriptor	Product Descriptor
ArchivingCentreId	Unique code for the agency/data centre holding the data. Several copies of a single pass can exist and each archive will be listed as a possible source of that pass.	Y	Y
CollectionCategory	Category of a collection.	Y	
CollectionHierarchyCategory	Category of the hierarchy.	Y	
CollectionHierarchyPosition	Position of the collection in the collection hierarchy, i.e. 'Terminal' or 'Non-Terminal'.	Y	
DataCentreName	The data centre name is composed of both short and long versions in the same manner as short and long sensor and data source names.	Y	
GeoSpatialForm	A characterisation of the type of product, e.g. satellite image or map.	Y	
GroupId	Identification of the user groups having access to specific options, e.g. for product order options may differ for each user group.	Y	Y
InstrumentId	A short identifier (acronym) for the instrument.	Y	Y
ItemDescriptorLanguage	The language in which the item descriptor is defined.	Y	Y
ItemLanguage	The language in which any textual information within the deliverable item is defined.		Y
LocalUseAttributeFlag	Flag indicating whether: • a collection has no local attributes (value = 0) • a collection has local attributes defined within the collection descriptor (value = 1) • a collection has local attributes defined in the Explain database (value = 2)	Y	
MissionId	Unique code for the satellite/mission.	Y	Y
ProcessingCentre	Contains the short name of the data centre that has generated the data.	Y	Y
ProcessingLevelId	This parameter identifies the processing level of the data in the archive.	Y	
ProcessingType	Type of processing, e.g. 'colour image product', 'GTC with DTM information'.	Y	Y
ProductMedium	Medium on which the product is available, e.g. 'CD-ROM', 'Exabyte'.	Y	Y
ProjectName	This element should be supplied when there is a relationship of the collection to a campaign or project (e.g. WOCE, FIRE, PROMIS, etc.). Campaigns or projects usually encompass data from a number of diverse data sources. The element includes both short and long names.	Y	
Role	The role of a person for the collection..	Y	
Scale	The scaling used for the data (e.g. map).	Y	Y
ScienceReviewStatus	Type of review which occurred on the Science Review Date.	Y	
SensorId	A mnemonic or otherwise abbreviated version (acronym) for the sensor.	Y	Y
SpatialKeyword	The spatial keywords provide the capability of selecting place names to be used as search parameters, usually as an alternative to specifying latitudes and longitudes (which may not apply in some disciplines). For example, 'Tropical Region', 'Atlantic Ocean'.	Y	
SpatialResolution	The minimum distance between two adjacent geographic points.	Y	Y
TemporalKeyword	The name of a time period covered by a collection. For example, 'Summer'.	Y	
ThemeKeyword	Controlled keyword list to define the theme (e.g. discipline, topic) covered by a collection.	Y	
UpdateFrequency	The frequency with which changes and additions are made to the data set after the initial data set is completed.	Y	

2.4 Valids Maintenance

The ICS Valids are a composite of various agencies controlled list of values for specified attributes, coupled with CIP specific attribute value requirements. Because of this reliance on various agencies controlled list of values for approximately 80% of the CIP valid values, the CIP control list will require continual collaboration with the respective source agencies. Therefore, the overall objective of this section of the valids document is to provide a strategy which will require a degree of collaboration with source agencies and ICS Sites for supporting the maintenance and control of a CIP valid value control list. Towards this objective two procedures have been identified;

- Valids Identification and Collaboration, and
- Valids Update.

Each of these activities is discussed below.

2.4.1 ICS Valids Identification and Collaboration Procedure

This is the first step in maintaining the ICS Valids. During this activity valid values will be identified, evaluated and distributed to Source Agencies and ICS Sites for review and comment. In support of this activity three tasks have been identified and presented below. Within each task a brief description of its subtasks is also provided.

TASK 1: Collecting/Distributing Valid Requirements/Recommendations

Conduct periodic valids review/solicitation meetings: The purpose of these meetings is to review the current ICS valids for the purpose of validating that the values still support interoperability, and to address any pending recommendations for eliminating existing values or incorporating new values.

Evaluate requests for new or change values: Because the valids for the Use Attributes play a significant role in ensuring interoperability it is envisioned that there will be a constant flow of requests for incorporating new valids or eliminating existing valids. Additionally, because of the importance of this role, each request that is received will undergo a preliminary evaluation using the following criteria.

1. Supports or furthers interoperability:

   The following question will be answered and the answer recorded during this evaluation: "Will the request support or further the tenets of ICS Interoperability?" "How or How Not. i.e." If a request is received to delete a valid value from the controlled list that several ICS sites are currently using, then a preliminary determination, regarding this request, should be to collaborate with the affected sites prior to taking any further action.

2. Scientific validity:

   This evaluation criteria will focus on the following primary question: "Is the request for a new/changed value scientifically correct?" i.e. If the request is to add a new value to the control list for the Spatial Keyword use attribute, and it is determined that the suggested value is not spatially valid, then the preliminary determination would be to return the request to the requester.

Consolidate inputs for new or changed values: Periodically (TBD) a consolidated package of recommendations will be distributed to ICS Sites for review. This package will contain the original request and preliminary recommendations from review/solicitation meetings and evaluations.

TASK 2: Collaborating with Source Agencies

Participate in Source Agency's reviews: It will be necessary to provide requests to Source Agencies to incorporate ICS specific value recommendations in the Agency's controlled lists, so that the ICS valids remain compatible with the valids that have been used as source. This procedure for submitting requests may vary from agency to agency. Therefore the nature and complexity of this task may require extensive collaboration with the source agency.

Participation in the Source Agency's Valids Committees will be necessary in order to maintain the integrity of the controlled lists. The degree of participation again will vary from agency to agency. However as a minimum it is envisioned that it will be necessary to monitor on a periodic basis the agency's valids. The intent of this task is to ensure that the changes to the valids are recognised and adopted by ICS.

Maintain own ICS Valids file: It is a high priority that the ICS valids remain aligned with the source valids that were used to define them in the first place. However, in some occasions it might occur that no agreement with an agency that maintains the source valids could be achieved. Also, some controlled lists of source agencies might be too long for the purpose of ICS interoperability where a subset of the source valids would be sufficient.

For these reasons, an independent ICS valids file is maintained within the ICS. This file and not the controlled lists that are provided by source agencies is mandatory for all ICS sites.

TASK 3: Approval Notification

Notify all ICS sites of valids updates: All ICS Sites need to be notified of the approved recommendations/deletions/changes to the ICS Valids. This notification will serve as a directive to perform the Valids updates (see next section)..

2.4.2 ICS Valids Update Procedure

TASK 1: ICS Valids ingestion file

TASK 2: Procedures to update Explain

TASK 3: Procedures to update the Collection database

for this section we expect input from implementation

3. Valids (Alphabetical Order)

This section lists all valids in alphabetical order and provides for each:

- a description (extracted from Appendix B of the CIP specification [CIP-B]).
- the sources that have been used
- the recommended default valid
- all valids and their descriptions

3.1 ArchivingCentreId

Description: Unique code for the agency/data centre holding the data. Several copies of a single pass can exist and each archive will be listed as a possible source of that pass.

Sources: ECS

Default Valid:

Valids	Description	Source
ASF DAAC	*Alaska SAR Facility (Alaska, USA)*	*ECS*
SEDAC / CIESIN	*Socioeconomic Data and Applications Center / Consortium for International Earth Science Information Network (Michigan, USA)*	*ECS*
EDC DAAC	*EROS Data Center (South Dakota, USA)*	*ECS*
GHRC	*Global Hydrology Resource Center (Alabama, USA)*	*ECS*
GSFC DAAC	*Goddard Space Flight Center (Maryland, USA)*	*ECS*
JPL DAAC	*Jet Propulsion Lab (California, USA)*	*ECS*
LARC DAAC	*Langley Research Center (Virginia, USA)*	*ECS*
NOAA SAA	*National Oceanic and Atmospheric Administration - Satellite Active Archive(Maryland, USA)*	*ECS*
NSIDC DAAC	*National Snow and Ice Data Center (Colorado, USA)*	*ECS*
ORNL DAAC	*Oak Ridge National Lab (Tennessee, USA)*	*ECS*

3.2 CollectionCategory

Description: Category of a collection.

Sources: CIP defined

Default Valid;

Valids	Description
Registered	
Unregistered	

3.3 CollectionHierarchyCategory

Description: Category of the hierarchy.

Sources: CIP defined

Default Valid: Product

Valids	Description
Product	

3.4 CollectionHierarchyPosition

Description: Position of the collection in the collection hierarchy, i.e. 'terminal' or 'non-terminal'

Sources: CIP defined

Default Valid:

Valids	Description
Terminal	
Non-Terminal	

3.5 DataCentreName

Description: The data centre name is composed of both short and long versions in the same manner as short and long sensor and data source names.

Sources: [GCMD *Data Center*]

Default Valid:

Valids	Description
AARC	*Arctic & Antarctic Research Center*
ACC	*Alaska Climate Center*
ACCA21	*Administrative Center for China's Agenda 21*
ACCU-WEATHER	
ACZDD	*Atlantic Coastal Zone Database Directory*
AEDC/UK	*Antarctic Environmental Data Centre*
AEDD	*Arctic Environmental Data Directory*
AES	*Agricultural Experiment Station, Texas*
AES/EC	*Atmospheric Environment Service, EC*
AETL	*Army Engineers Topographic Laboratories*
AGC/GSC/EMR	*Atlantic Geoscience Centre, GSC, EMR*
AGU	*Aoyama Gakuin University*

Valids	Description
AIRS	*Aerometric Information Retrieval System, EPA*
ALF	*National Agricultural Library Forum*
AMES	*Ames Research Center, NASA*
AMES/GRAPES	*NASA Ames Research Center GRAPES Project*
AMPTE/APL	*CCE Science Data Center, APL*
AMRC	*Antarctic Meteorology Research Center*
ANCC/BOM	*Australian National Climate Center Bureau of Meteorology*
ANCC/BOM/NSWRO	*Bureau of Meteorology New South Wales Regional Office*
ANCC/BOM/NTRO	*Bureau of Meteorology Northern Territory Regional Office*
ANCC/BOM/QRO	*Bureau of Meteorology Queensland Regional Office*
ANCC/BOM/SARO	*Bureau of Meteorology South Australian Regional Office*
ANCC/BOM/TARO	*Bureau of Meteorology Tasmanian-Antarctica Regional Office*
ANCC/BOM/VRO	*Bureau of Meteorology Victorian Regional Office*
ANCC/BOM/WARO	*Bureau of Meteorology Western Australian Regional Office*
AODC	*Australian Oceanographic Data Centre*
APHIS	*Animal and Plant Health Inspection Service*
APRF	*Atmospheric Profiler Research Facility/Army Research Laboratory*
APSRS	*Aerial Photography Summary Record System*
AQDEDCG	*Air Quality Division, Environment Department Chiba Government*
ARM ARCHIVE	*Atmospheric Radiation Measurement Project Archive, DOE*
ARB	*Air Resources Branch, Ontario Ministry of the Environment and Energy, Canada*
ARSI	*Atmospheric Research Systems Inc.*
ASDLS	*Antarctic Seismic Data Library System*
ASF	*Alaska SAR Facility*
ASF DAAC	*ASF Distributed Active Archive Center*
ATSDR	*Agency for Toxic Substances and Disease Registry*
AU	*Auburn University*
AUSLIG	*Australian Survey and Land Information Group*
AVISO	*Archiving, Validation and Interpretation of Satellite Oceanographic Data*
AWI	*Alfred Wegener Institute for Polar and Marine Research*
AWIS	*Agricultural Weather Information Service, Inc.*
AXYS	*AXYS Software Ltd.*
AZGS	*Arizona Geological Survey*
BADC	*British Atmospheric Data Centre*
BADC/RAL	*British Atmospheric Data Center Rutherford Appleton Laboratory*
BARTHOLOMEWS	
BAS	*British Antarctic Survey*
BBSO	*Big Bear Solar Observatory*
BDC	*Backgrounds Data Center*
BEA	*Bureau of Economic Analysis*
BEV	*Bundesamt fuer Eich-und Vermessungswesen*
BGS	*British Geological Survey*

Valids	Description
BIO/F&O	*Bedford Institute of Oceanography, Fisheries and Oceans, Canada*
BISHOP MUSEUM	*Bishop Museum Department of Natural Sciences*
BLM	*Bureau of Land Management*
BODC	*British Oceanographic Data Centre*
BPRC	*Byrd Polar Research Center*
BROWN OBSERVATORY	
BTS	*Bureau of Transportation Statistics*
CALDEPTCON/CDMG/SACRAMENTO	*California Dept of Conservation, Division of Mines and Geology, Sacramento*
CARB	*California Air Resource Board*
CBP	*Chesapeake Bay Program*
CCAR/CU	*Colorado Center for Astrodynamics Research University of Colorado*
CCG/GC/NRCAN	*Canada Centre for Geomatics, GC, NRCan*
CCRS/GC/NRCAN	*Canada Centre for Remote Sensing, GC, NRCan*
CCRS/SMRSS/EMR	*Canada Centre for Remote Sensing, SMRSS, EMR*
CDC	*Communications Data Services, Inc.*
CDDIS	*Crustal Dynamics Data Information System*
CDIAC	*Carbon Dioxide Information Analysis Center, DOE*
CEADO	*Centro Argentino de Datos Oceanograficos*
CEDAR	*Coupling, Energetics & Dynamics of Atmospheric Regions*
CEDARE	*Centre for Environment and Development for the Arab Region and Europe*
CEDO	*Centro Espanol de Datos Oceanograficos*
CENDOC	*Centro Nacional de Datos Oceanograficos de Chile*
CENPAT	*Patagonian National Centre*
CERB	*Centro de Estudios de Recursos Bioticos*
CERC	*Coastal Engineering Research Center*
CERC/FRF	*Coastal Engineering Research Center, Field Research Facility*
CERIS	*Center for Environmental and Regulatory Systems*
CES	*Cooperative Extension Service*
CES/USGS	*Cooperative Extension Service/ U.S. Geological Survey*
CESBIO	*Centre d'Etudes Spatiales de la Biosphere*
CGEIC	*Canadian Global Emissions Interpretation Centre (CGEIC)*
CH	*Chadwyck-Healey Inc.*
CHF	*Chadwyck-Healey Inc. of France*
CHS	*Chadwyck-Healey Inc. of Spain*
CIESIN	*Consortium for International Earth Science Information Network*
CIKARD	*Center for Indigenous Knowledge for Agriculture and Rural Development*
CIR	*Center for International Research*
CIS	*Chemical Information Systems*
CLBRR/CEF/AGR	*Centre for Land and Biological Resources Research, CEF, AGR*
CMO/GC/NRCAN	*Canada Map Office, GC, NRCan*
CNES	*Centre National d'Etudes Spatiales, France*

Valids	Description
CNIG	*Centro Nacional de Informacion Geographica, Spain*
CNL	*Crocker Nuclear Laboratory*
CNODC	*China National Oceanographic Data Center*
CNR/IROE	*Consiglio Nazionale delle Ricerche/Istituto di Ricerca sulle Onde Elettromagnet.*
CNRE MADAGASCAR	*Centre National de Recherche sur l'Environnement, Madagascar*
CNRM/GMME	*Centre National de Recherche Meteorologique*
COBA	*Centro Oceanografico Buenos Aires*
CPS/EC	*Canadian Parks Service, EC*
CRES/ANU	*Centre for Resource and Environmental Studies, Australian National University*
CRIS	*Current Research Information System*
CRL	*Communications Research Laboratory*
CRSGS	*China Remote Sensing Satellite Ground Station*
CRSSA/CC	*Center for Remote Sensing and Spatial Analysis, Cook College*
CRU	*Climate Research Unit, University of East Anglia*
CSA	*Canadian Space Agency*
CSC	*Computer Science Corporation*
CSS	*Center for Seismic Studies, DARPA*
CSSA	*Center for Space Science and Astrophysics*
CSU	*Colorado State University*
CSU/MIT	*Colorado State University, Massachusetts Institute of Technology*
CSU/NREL	*Colorado State University Natural Resource Ecology Laboratory*
CTIC	*Conservation Technology Information Center*
CU - CORNELL	*Cornell University*
CU - CLEMSON	*Clemson University*
CWS	*Canadian Wildlife Service*
CYPRESS	*Cypress Geo-Resources, Inc.*
DACEOU	*Department of Applied Chemistry and Engineering, Oita University*
DALI	*CNES-SPOT IMAGE Catalogue*
DEAPO	*Department of Environment, Aichi Prefecture Office*
DECEKU	*Department of Civil Engineering, Kyushu University*
DEPK	*Department of Environment and Pollution, Kumamoto Prefecture*
DEYP	*Department of Environment Yamanashi Prefecture*
DHETP	*Department of Health and Environment Tokushima Prefecture*
DIASHU	*Department of Integrated Arts and Sciences, Hiroshima University*
DKRZ	*Deutsches Klimarechenzentrum GmbH*
DLR/DFD	*German Remote Sensing Data Center, Deutsches Fernerkundungsdatenzentrum (DFD)*
DMA/CSC	*Defense Mapping Agency Combat Support Center*
DOD	*Deutsches Ozeanographisches Datenzentrum*
DOE/BNL	*Brookhaven National Laboratory, DOE*
DOE/EIA	*Department of Energy, Energy Information Administration*
DOE/EML	*Department of Energy Environmental Measurements Lab*
DRA	*Defense Research Agency*

Valids	Description
DRAO	*Dominion Radio Astrophysical Observatory*
DSEMU	*Department of Science and Engineering, Meiji University*
DUPAGE	*College of DuPage, Illinois*
DVNII	*Far East Research Institute for Hydrometeorology*
DWD	*Deutscher Wetterdienst*
DWD/GPCC	*Global Precipitation Climatology Centre*
DWD/NKDZ	*Nationales Klimadatenzentrum*
EC	*Environment Canada*
ECLAT-ESCG	*Evolution du Climat et de l'Atm-Economie et Societe Face aux Changements Globaux*
ECMWF	*European Centre for Medium-Range Weather Forecasts*
ECS-GSFC	*EOSDIS Core System Goddard Space Flight Center*
EDC_DAAC	*EROS Data Center Distributed Active Archive Center*
EDIMAR	*Estacion de Investigaciones Marinas Isla Margarita - FLASA*
EDIMS/UNH	*Environmental Data and Information Management System, Univ. of New Hampshire*
EESD/LANL	*Earth & Environmental Sciences Division/Los Alamos National Laboratory*
EIC/ITE	*Environmental Information Centre at the Institute of Terrestrial Ecology*
EII	*EarthInfo Inc.*
EINET	*Eurimage/eiNet*
ELTU	*Environmental Laboratory Tohoku University*
ENEA-CR	*ENEA - Casaccia - Roma*
ENVIRONET	*Space Environment Information Service*
EOC	*Earth Observation Center*
EODC	*Earth Observation Data Centre*
EOSAT	*Space Imaging EOSAT*
EPA	*Environmental Protection Agency*
EPA/AREAL/EERD/GCRB	*Global Climate Research Branch*
EPA/NERL	*National Exposure Research Laboratory, EPA*
EPD	*European Pollen Database*
EPRI	*Electric Power Research Institute*
EPRI/ASDC	*Electric Power Research Institute/Atmospheric Sciences Data Center*
EREN/DOE	*Energy Efficiency and Renewable Energy Network, DOE*
ERIDAN-1	*Eridan-1 Ltd.*
EROS	*Earth Resources Observation Systems Data Center*
ERS	*Economic Research Service*
ESA ERS-1 US	*European Space Agency ERS-1 Users Service*
ESA/ESOC	*European Space Agency/ESOC*
ESA/ESRIN DEX/EU	*European Space Agency/ESRIN Earth Remote Sensing User Services*
ESA/ESRIN RS/OD	*European Space Agency/ESRIN Remote Sensing Services*
ESCIC	*Environmental Surveillance Center of Ichihara City*
ESDD	*Earth Science Data Directory, USGS*
ESHSNU	*Department of Earth Sciences, Humanities and Sciences, Nihon University*
EURIMAGE SCRL	

Valids	Description
FAO	*Food and Agriculture Organization of the United Nations*
FAO/FI	*Food and Agriculture Organization of the United Nations, Fisheries Department*
FARM-A-SYST	*National Farm Assessment Office*
FC	*Forestry Canada*
FCAGLP	*Facultad de Ciencias Astronomicas y Geofisicas*
FED/BMR	*Bureau of Mineral Resources, Austalia*
FED/BRR	*Bureau of Rural Resources, Australia*
FED/NRC	*National Resource Information Centre, Australia*
FHG/IFU	*Fraunhofer Institute for Atmospheric Environmental Research*
FIAMS	*Flinders Institute for Atmospheric and Marine Sciences*
FIMR	*Finnish Institute of Marine Research*
FLA/DOT	*Florida Department of Transportation*
FO	*Fisheries and Oceans, Canada*
FSE/SUT-NISHIMURA LABORATORY	*Faculty of Science and Engineering, Science University of Tokyo, Nishimura Labo*
FSPFES	*Fukushima Prefecture Fisheries Experiment Station*
FSU	*Florida State University*
FSU/COAPS	*Florida State University Center for Ocean-Atmospheric Prediction Studies*
FSU/METO	*Florida State University, Meteorology Department*
FTRS	*Fruit Tree Research Station*
FUB	*Institute for Meteorology Free University Berlin*
FWIE	*Fish and Wildlife Information Exchange, Virginia Tech*
FWS/ALASKA	*U.S. Fish and Wildlife Service, Alaska*
G2 ENVIRONMENTAL	*G2 Environmental, Inc.*
GC/NRCAN	*Geomatics Canada, NRCan*
GCIP	*GCIP Project Office*
GDC/GSC/NRCAN	*Geophysical Data Centre, GSC, NRCan*
GDCEDC	*GALE, ERICA Data Center, Drexel University*
GDS	*GeoMet Data Services, Inc.*
GDT	*Geographic Data Technology*
GEOLYTICS	
GEOTERREX	*GEOTERREX, A Division of CGG Canada Ltd.*
GETECH	*Geophysical Exploration Technology*
GFZ	*Geo Research Center Potsdam*
GIC	*GRASS Information Center*
GIRIN	*Government Industrial Research Institute, Nagoya*
GISS	*Goddard Institute for Space Studies, NASA*
GIT	*Georgia Institute of Technology*
GKSS	*GKSS Forschungszentrum GmbH Geesthacht, Germany*
GLA	*Goddard Laboratory for Atmospheres, NASA/GSFC*
GLFC/FC	*Great Lakes Forestry Centre, FC*
GLOBE	*Global Learning and Observations to Benefit the Environment*

Valids	Description
GMW	*Galson MesoWeather*
GOLDIS	*Geophysics On-Line Data and Information System*
GONG DMAC	*GONG Data Management and Analysis Center*
GRDC	*Global Runoff Data Center*
GSALA	*Geological Survey of Alabama*
GSI	*Geographical Survey Institute*
GSC	*Geological Survey of Canada*
GSC/EMR	*Geological Survey of Canada, EMR*
GSC/NRCAN	*Geological Survey of Canada, NRCan*
GSC/ATL/NRCAN	*Geological Survey of Canada, Atlantic, NRCan*
GSD/SMRSS/EMR	*Geodetic Survey Division, SMRSS, EMR*
GSF PUC	*GSF Research Center for Environment and Health*
GSFC ACDB	*Atmospheric Chemistry and Dynamics Branch, NASA*
GSFC DE	*GSFC Dynamics Explorer, NASA*
GSFC/CRB	*Goddard Space Flight Center Climate Radiation Branch, NASA*
GSFC/HYDRO	*Laboratory for Hydrospheric Processes, NASA*
GSFC/LA	*Goddard Space Flight Center Laboratory for Atmospheres*
GSFC/OIB	*Goddard Space Flight Center Oceans and Ice Branch, NASA*
GSFC/TRMM	*Goddard Space Flight Center Tropical Rainfall Measuring Mission, NASA*
GSFC_DAAC	*Goddard Space Flight Center Distributed Active Archive Center, NASA*
GSH	*Geological Survey of Hokkaido*
GSJ	*Geological Survey of Japan*
GSS	*Geophysical Survey of Slovenia*
GWC	*Gulf Weather Corporation*
HARVARD/APPSCIENCE	*Harvard University Division of Applied Sciences*
HARVARD/LTER	*Harvard University, Harvard Forest*
HCFES	*Hokkaido Central Fisheries Experimental Station*
HDPI	*Hydrosphere Data Products Inc.*
HE	*Hamilton Exploration*
HIT	*Hachinohe Institute of Technology*
HNAES	*Hokkaido National Agricultural Experiment Station*
HNHS	*Hellenic Navy Hydrographic Service*
HPCC	*High Plains Climate Center*
HPFES	*Hyogo Prefectural Fisheries Experimental Station*
HU	*Hirosaki University*
IAA	*Instituto Antartico Argentino*
IAS	*Institut d'Aeronomie Spatiale*
ICASALS	*International Center for Arid and Semi-Arid Land Study*
ICES/SVC_HYDR	*International Council for the Exploration of the Sea, Service Hydrographique*
ICPRB	*Interstate Commission on the Potomac River Basin*
ICPSR	*Inter-university Consortium for Political and Social Research*
ICRAF	*International Centre for Agroforestry*

Valids	Description
ICSF/SUNY/BUFFALO	*Ice Core Storage Facility, State University of New York, Buffalo*
IDI	*Intermountain Digital Imaging*
IDRC	*International Development Research Centre*
IFM	*Institut fuer Meereskunde, Kiel, Germany*
IFSI	*Istituto di Fisica dello spazio Interplanetario, CNR*
IGAC-GEIA	*GEIA Data Management and Information Exchange Center*
IGC	*Institute for Global Communications, San Francisco*
IGNE	*IGN ESPACE*
IGPO	*International GEWEX Project Office*
IGS/CBIS	*International GPS Service for Geodynamics, Central Bureau Information System*
IGS/CIGNET	*International GPS Service for Geodynamics, NOAA Geosciences Lab*
IGS/GSD/NRCAN	*International GPS Service for Geodynamics,Natural Resources, Canada*
IGS/IFAG	*International GPS Service for Geodynamics, Institut fuer Angewandte Geodaesie*
IGS/IGN	*IGS GPS Service, Institut Geographique National Global Data Center, France*
IGS/JPL	*International GPS Service for Geodynamics, JPL Special Data Center*
IGS/SIO	*International GPS Service for Geodynamics, Scripps Institution of Oceanography*
IISTU	*Institute of Industrial Science, Tokyo University*
IMDC	*Irish Marine Data Centre*
INAC	*Indian and Northern Affairs Canada*
INFOCLIMA	*World Climate Data and Information Referral Service (UN WMO)*
ING/ROME	*Istituto Nazionale di Geofisica, Rome, Italy*
INNOTECH	*Innotech Aviation Limited*
INOCAR	*Instituto Oceanografico de la Armada*
INODC	*Indian National Oceanographic Data Centre*
INPE	*Instituto Nacional de Pesquisas Espaciais*
INPE/CPTEC	*Centro de Previsao de Tempo e Estudos Climaticos*
INPE/DAE/FISAT	*INPE/Aeronomy Division/Fisca da Alta Atmosfera (Upper Atmosphere Research)*
INPE/DAS	*INPE Astrophysics Division*
INPE/DGI	*INPE Divisao de Geracao de Imagens*
INPE/DSA	*INPE Div. of Environmental Satellites Ops.*
INPE/DSM	*INPE Divisao de Sensoriamento Remoto*
INPE/DSR	*INPE Division of Remote Sensing*
INPE/IGGDC	*INPE Geochemistry and Geophysical Data Center*
IOF	*Institute of Oceanography and Fisheries*
IPCC	*Intergovernmental Panel on Climate Change*
IPCR	*The Institute of Physical and Chemical Research*
IPL	*Istituto Per L'Ambiente*
IPPRC	*Ibaraki Prefectual Pollution Research Center*
IRE-CPSSI	*IRE RAS Center of Processing and Storing the Space Information*
IRIS	*Incorporated Research Institutions for Seismology*
ISAS	*Institute for Space and Astronautical Sciences*
ISIS	*Intelligent Satellite Data Information System*

Valids	Description
ISPG	*Institute of Sedimentary & Petroleum Geology*
ISPG/GSC/EMR	*Institute of Sedimentary & Petroleum Geology, GSC, EMR*
ISS	*Institute for Social Studies*
ISTAR	*Imagerie STereo Appliquee au Relief*
ISWS	*Illinois State Water Survey*
ITA	*Institute of Theoretical Astrophysics, Oslo, Norway*
IUCN	*IUCN-The World Conservation Union*
IUCN/SSC/AFESG	*African Elephant Specialist Group - Species Survival Commission - WCU*
JAMSTEC	*Japan Marine Science and Technology Center*
JER	*Jornada Experimental Range*
JHU/APL	*Johns Hopkins University Applied Physics Laboratory*
JNODC	*Japan Oceanographic Data Center*
JPL	*Jet Propulsion Lab, NASA*
JPL/ATMOS	*Jet Propulsion Laboratory/ATMOS, NASA*
JPL/PODAAC	*Physical Oceanography Distributed Active Archive Center*
JRC/SAI	*Space Applications Institute at Joint Research Center (JRC), Ispra (VA) /Italy*
JSC	*Lyndon B. Johnson Space Center, NASA*
JWA	*Japan Weather Association*
KADAI	*Department of Applied Chemistry Chemical Engineering, Kagoshima University*
KERC	*Kanagawa Environmental Research Center*
KMRIEP	*Kawasaki Municipal Research Institute for Environmental Protection*
KOPES	*Kochi Prefectual Fisheries Experimental Station*
KPFES	*Kanagawa Prefectural Fisheries Experimental Station*
KSU/LTER	*Kansas State University, Konza Prairie LTER Site*
KUC	*Kobe University of Commerce*
KUDA	*Kuwait Data Archive*
LARC	*Langley Research Center, NASA*
LARC/UADP	*Langley Research Center/Upper Atmosphere Data Program*
LARC_DAAC	*Langley Research Center Distributed Active Archive Center, NASA*
LDEO	*Lamont-Doherty Earth Observatory*
LDEO/CG	*Lamont-Doherty Earth Observatory Climate Group*
LFC/FC	*Laurentian Forestry Centre, FC*
LLNL	*Lawrence Livermore National Laboratory*
LMD	*Laboratoire de Meteorologie Dynamique*
LPARL	*Lockheed Palo Alto Research Laboratory*
LRRL	*Livestock and Range Research Laboratory*
LSC/METO	*Lyndon State College, Meteorology Department*
LSR	*Laboratory for Space Research, Utrecht, The Netherlands*
LTER	*Long-Term Ecological Research Network Office*
MACLAREN	*MacLaren Plansearch Ltd/ SNC/Lavalin Inc*
MARF/EUMETSAT	*Meteorological Archive Retrieval Facility/ EUMETSAT*
MARIS	*Marine Information Service*

Valids	Description
MARTEC	*Martec, Ltd*
MBARI	*Monterey Bay Aquarium Research Institute*
MBL/LTER	*Marine Biological Laboratory, Woods Hole*
MCAU	*Mining College, Akita University*
MDD/INAC	*Mineral Development Division, INAC*
MDDNR	*Maryland Department of Natural Resources*
MDNR	*Michigan Department of Natural Resources*
MEDIAS	*Support Office for Regional Research on Global Environmental Change*
MEDS	*Marine Environmental Data Service*
MERI	*Marine Ecology Research Institute*
MIAS	*Marine Information & Advisory Service*
MIC	*Meteorological Information Center (JWA)*
MICROMEDEX	*Micromedex, Inc.*
MIT/WRL	*Massachussetts Institute of Technology Weather Radar Laboratory*
MMS/GOMR	*Minerals Management Service, Gulf of Mexico Outer Continental Shelf Region*
MODB	*Mediterranean Oceanic Data Base*
MPFES	*Miyagi Prefectural Fisheries Experimental Station*
MPI	*Max Planck Institute*
MRD/GSC/EMR	*Mineral Resources Division, GSC, EMR*
MRI/JMA	*Meteorological Research Institute Japan Meteorological Agency*
MRJ INC.	
MRSC	*Manitoba Remote Sensing Centre, Manitoba, Canada*
MSC	*Media Services Corporation*
MSDST	*MODIS Science Data Support Team*
MSFC	*Marshall Space Flight Center, NASA*
MSFC/GHRC	*Global Hydrology Resource Center, NASA/MSFC*
MSFC-SDC	*MSFC Solar Data Center*
MSLAB	*Marine Science Laboratory, Faculty of Engineering, Oita University*
MSO	*Mees Solar Observatory, University of Hawaii*
MSSL	*Mullard Space Sciences Laboratory, UK*
MSU	*Michigan State University*
MSU/LTER	*Michigan State University, Kellogg Biological Station (KBS)*
MUOHIO	*Miami University, Ohio*
MZPIPHE	*The Miyazaki Prefectural Institute of Public Health and Environment*
NADP/NTN	*National Atmospheric Deposition Program/National Trends Network*
NAIS	*National Atlas Information Service of Canada*
NAOM	*National Astronomical Observatory, Mizusawa*
NARA	*National Archives and Records Administration*
NASA/GSFC/ESD/NDRD	*Natural Disaster Reference Database, Earth Sciences Directorate, NASA/GSFC*
NASA/GSFC/HSB	*Hydrological Sciences Branch, NASA/GSFC*
NAVOCEANO	*U.S. Naval Oceanographic Office*
NAVY/NOAA JIC	*Joint Ice Center*

Valids	Description
NAWDEX	*National Water Data Exchange, USGS*
NAWQA	*National Water Quality Assessment Program*
NBDNRE	*New Brunswick Department of Natural Resources and Energy*
NBDOE	*New Brunswick Department of the Environment*
NBGIC	*New Brunswick Geographic Information Corporation*
NBS/CPSU/OSU	*Cooperative Park Studies Unit, Oregon State University*
NBS/CPSU/UMINN	*Cooperative Park Studies Unit, University of Minnesota*
NBS/CPSU/UWASH	*Cooperative Park Studies Unit, University of Washington*
NBS/GNP	*Glacier National Park Field Station*
NBS/GNP/UMONT	*Glacier National Park, University of Montana*
NBS/NBII	*National Biological Service National Biological Information Infrastructure*
NBS/RMNP	*Rocky Mountain National Park Field Station*
NBS/SKCNP	*Sequoia-Kings Canyon National Park Field Station*
NBS/YNP	*Yosemite National Park Field Station*
NCAR	*National Center for Atmospheric Research*
NCAR/ACD	*Atmospheric Chemistry Division, NCAR*
NCAR/ATD	*Atmospheric Technology Division, NCAR*
NCAR/ATD/RDP	*Atmospheric Technology Division, Research Data Program, NCAR*
NCAR/DSS	*Data Support Section, NCAR*
NCAR/HAO	*High Altitude Observatory, NCAR*
NCAR/RAP	*Research Application Program, NCAR*
NCAR/SCD/MSS	*Scientific Computing Division, Mass Storage System, NCAR*
NCDEDCG	*Nature Conservation Division Environment Department Chiba Prefectural Government*
NCEDC	*Northern California Earthquake Data Center*
NCMR	*National Centre For Marine Research*
NCSU	*North Carolina State University*
NDSU	*North Dakota State University*
NEDRES	*National Environmental Data Referral Service, NOAA*
NERC/DU	*National Environment Research Council, Dundee University*
NERSC	*Nansen Environmental and Remote Sensing Centre*
NFLDDFA	*Newfoundland Department of Forestry and Agriculture*
NFLDDME	*Newfoundland Department of Mines and Energy*
NFLDDNR	*Newfoundland Department of Natural Resources*
NGRL	*National Germplasm Resources Laboratory*
NIBH	*National Institute of Bioscience and Human Technology*
NIED	*National Research Institute for Earth Science and Disaster Prevention*
NIES	*National Institute for Environmental Studies*
NILU	*Norwegian Institute for Air Research*
NIPR	*National Institute of Polar Research*
NIRS	*National Institute of Radiological Sciences*
NIST	*National Institute of Standards and Technology*
NMML	*National Marine Mammal Laboratory*

Valids	Description
NMSU	*New Mexico State University*
NNHP	*Nongame and Natural Heritage Program*
NOAA-SAA	*NOAA/NESDIS Satellite Active Archive*
NOAA/CBO	*NOAA Chesapeake Bay Office*
NOAA/CS/NCOPO	*Coastal Ocean Program Office, NOAA*
NOAA/CSC	*NOAA Coastal Services Center*
NOAA/NESDIS/ARL	*Air Resources Laboratory, NOAA*
NOAA/NESDIS/EIS	*Environmental Information Services, NOAA*
NOAA/NESDIS/NCDC	*National Climatic Data Center, NOAA*
NOAA/NESDIS/NCDC/GSAA	*NCDC Geostationary Satellite Active Archive, NOAA*
NOAA/NESDIS/NCDC/OASIS	*NCDC On-line Access and Service Information System, NOAA*
NOAA/NESDIS/NCDC/OSCAR	*NCDC On-line Satellite Catalog Access and Retrieval System, NOAA*
NOAA/NESDIS/NCDC/SDSD	*Satellite Data Services Division, NOAA*
NOAA/NESDIS/NGDC	*National Geophysical Data Center, NOAA*
NOAA/NESDIS/NODC	*National Oceanographic Data Center, NOAA*
NOAA/NESDIS/NODC/LISD	*Library Services Information Division, NOAA*
NOAA/NESDIS/ORA/SAL/SIB	*Satellite Applications Laboratory Sounding Implementation Branch, NOAA*
NOAA/NESDIS/OSDPD	*Office of Satellite Data Processing and Distribution, NOAA*
NOAA/NMFS/NEFC	*Northeast Fisheries Center, NOAA*
NOAA/NMFS/OREI	*Office of Research and Environmental Information, NOAA*
NOAA/NMFS/SEFC	*Southeast Fisheries Center, NOAA*
NOAA/NMFS/SWFC	*Southwest Fisheries Center, NOAA*
NOAA/NMFS/SWFC/PFEG	*Pacific Fisheries Environmental Group, NOAA*
NOAA/NOS/ACC/ACD	*Aeronautical Chart Division, NOAA*
NOAA/NOS/NGS	*National Geodetic Survey, NOAA*
NOAA/NOS/OCS/HSD	*Hydrographic Surveys Division, NOAA*
NOAA/NOS/OCS/MCD	*Marine Chart Division, NOAA*
NOAA/NOS/OCS/OPSD	*Oceanographics Products and Services Division, NOAA*
NOAA/NOS/OES/MAID/CEOB	*Coastal and Estuarine Oceanography, NOAA*
NOAA/NOS/OES/MAID/OAB	*Ocean Applications Branch, NOAA*
NOAA/NOS/ORCA/CMBAD	*Coastal Monitoring and Bioeffects Assessment Division, NOAA*
NOAA/NOS/ORCA/SEA	*Strategic Environmental Assessment Division, NOAA*
NOAA/NWS/BUFFALO	*Buffalo Forecast Office, NOAA*
NOAA/NWS/LA	*Los Angeles/Oxnard California, NOAA*
NOAA/NWS/NDBC	*National Data Buoy Center*
NOAA/NWS/NMC	*National Meteorological Center, NOAA*
NOAA/NWS/NMC/NCEP/CPC	*Climate Prediction Center, NOAA*
NOAA/NWS/NMC/NCEP/NHC	*National Hurricane Center, NOAA*
NOAA/NWS/NMC/NCEP/CPC/HPCC	*High Plains Climate Center, NOAA*
NOAA/NWS/NMC/NCEP/CPC/MCC	*Midwestern Climate Center, NOAA*
NOAA/NWS/NMC/NCEP/CPC/N	*Northeast Regional Climate Center, NOAA*

Valids	Description
RCC	
NOAA/NWS/NMC/NCEP/CPC/SERCC	*Southeast Regional Climate Center, NOAA*
NOAA/NWS/NMC/NCEP/CPC/SRCC	*Southern Region Climate Center,NOAA*
NOAA/NWS/NMC/NCEP/CPC/WRCC	*Western Regional Climate Center,NOAA*
NOAA/NWS/NOHRSC	*National Operational Hydrologic Remote Sensing Center, NOAA*
NOAA/NWS/OAX	*Kansas City/Pleasant Hill Office, NOAA*
NOAA/NWS/PTWC	*Pacific Tsunami Warning Center, NOAA*
NOAA/NWS/PUB	*Pueblo Colorado Office, NOAA*
NOAA/NWS/SALTLAKE	*Salt Lake City, Utah Forecast Office, NOAA*
NOAA/NWS/SANFRANCISCO	*San Francisco Bay Area, NOAA*
NOAA/NWS/SIOUX-FALLS	*Sioux Falls South Dakota Forecast Office, NOAA*
NOAA/NWS/WILMINGTON	*Wilmington Ohio Forecast Office, NOAA*
NOAA/NWS/WRH/CBRFC	*Colorado Basin River Forecast Center*
NOAA/OAR/AOML	*Atlantic Oceanographic and Meteorological Laboratory, NOAA*
NOAA/OAR/AOML/HRD	*Hurricane Research Division, NOAA*
NOAA/OAR/CMDL	*Climate Monitoring Diagnostics Laboratory, NOAA*
NOAA/OAR/CMDL/NOAH	*Nitrous Oxide and Halocompounds Division, NOAA*
NOAA/OAR/ERL/AL	*Aeronomy Laboratory, NOAA*
NOAA/OAR/ERL/ARL	*Air Resources Laboratory, NOAA*
NOAA/OAR/ERL/ARL/ASMD	*Atmospheric Sciences Modeling Division, NOAA*
NOAA/OAR/ERL/ARL/ATDD	*Atmospheric Turbulence and Diffusion Division*
NOAA/OAR/ERL/CDC	*Climate Diagnostics Center, NOAA*
NOAA/OAR/ERL/ETL	*Environmental Technology Laboratory, NOAA*
NOAA/OAR/ERL/FSL	*Forecast Systems Laboratory, NOAA*
NOAA/OAR/ERL/GLERL	*Great Lakes Environmental Research Laboratory, NOAA*
NOAA/OAR/ERL/NSSL	*National Severe Storms Laboratory, NOAA*
NOAA/OAR/ERL/SEL/SESC	*Space Environment Laboratory, NOAA*
NOAA/OAR/ERL/WPL	*Wave Propagation Laboratory, NOAA*
NOAA/OAR/PMEL	*Pacific Marine Environmental Laboratory, NOAA*
NOAA/OAR/PMEL/TAO	*TAO Project Office, NOAA/PMEL*
NOAA/OAR/WPL	*Wave Propagation Laboratory, NOAA*
NOD	*Norsk Oseanografisk Datasenter*
NODC/BULGARIA	*National Oceanographic Data Center, Bulgaria*
NODC/PAKISTAN	*Pakistan National Oceanographic Data Centre*
NPMC	*National Plant Materials Center*
NPRIHE	*Niigata Prefectural Research Institute for Health and Environment*
NPS	*Naval Postgraduate School*
NPS/NBS	*National Park Service and National Biological Service*
NRCS	*Natural Resources Conservation Service*
NRIFS	*National Research Institute of Fisheries Science*
NRL/MONTEREY	*Naval Research Laboratory Monterey*

Valids	Description
NRSC	*National Remote Sensing Centre*
NSIDC	*National Snow and Ice Data Center*
NSIDC_DAAC	*NSIDC Distributed Active Archive Center*
NSF	*National Science Foundation*
NSO/KP	*National Solar Observatories, Kitt Peak*
NSO/SP	*National Solar Observatories, Sacramento Peak*
NSSDC	*National Space Science Data Center, NASA*
NTIS	*National Technical Information Service*
NTU	*National Taiwan University*
NWRC/BBO	*National Wildlife Research Centre, Bird Banding Office*
NWRC/CWS/EC	*National Wildlife Research Centre, CWS, EC*
OALS	*Office of Arid Lands Studies, University of Arizona*
OCEANIC	*Ocean Information Center*
OECD	*Organization for Economic Cooperation and Development*
OECD/IEA	*OECD/International Energy Agency*
OECD/IEA/GR	*OECD/International Energy Agency/Germany-Austria-Switzerland*
OECD/IEA/JP	*OECD/International Energy Agency/Japan and the Far East Group*
OECD/IEA/US	*OECD/International Energy Agency/United States of America*
OGI	*Oregon Graduate Institute*
OGS	*Osservatorio Geofisisco Sperimentale - Geofisica della Litosfera*
ONE MADAGASCAR	*Office National pour L'Environnement, Madagascar*
OPIPH	*Osaka Prefectural Institute of Public Health*
ORNL	*Oak Ridge National Laboratory*
ORNL_DAAC	*Oak Ridge National Laboratory Distributed Active Archive Center*
ORSTOM	*L'Institut Francais de Recherche Scientifique pour Development en Cooperation*
OS	*Ordnance Survey, UK National Mapping Agency*
OSU - OHIO	*Ohio State University*
OSU - OREGON	*Oregon State University*
OSU/LTER	*Oregon State University, H.J. Andrews LTER Site*
PALEOMAP	*PALEOMAP Project*
PC/CH	*Parks Canada, Canadian Heritage*
PDREC	*Pee Dee Research and Education Center*
PDS-GEOSCIENCES NODE	*Geosciences Node, Planetary Data System*
PFC/FC	*Pacific Forestry Centre/FC*
PFFATUAT	*Phytorn Facility, Fac. of Agriculture Tokyo Univ. of Agriculture and Technology*
PI	*Petroleum Information On-Line Services*
PITT/PALEOMAG	*University of Pittsburgh, Paleomagnetic Database Archive*
PKDB	*International Paleoclimate Database*
PLANETA	*Research and Production Association, Russia*
PNFI/FC	*Petawawa National Forest Institute, FC*
PNRA	*Italian Program for Antarctic Research*
PSC	*Plymouth State College*

Valids	Description
PSMSL	*Permanent Service for Mean Sea Level*
PSU	*Pennsylvania State University*
PSU/METO	*Pennsylvania State University Meteorology Department*
PSU/METO/FPDA	*Pennsylvania State University Meteorology Department Field Project Data Archive*
PU	*Purdue University*
RAE	*Royal Aerospace Establishment*
RAL	*Rutherford Appleton Laboratories, UK*
RAN/HYDRO	*Royal Australian Navy, Hydrographic Office*
RDC	*Radar Data Center*
RESTEC	*Remote Sensing Technology Center of Japan*
RFF	*Resources for the Future, Inc.*
RHS	*Regional Hydrometeorological Service*
RIAMKU	*Research for Applied Mechanics Kyushu University*
RIDA	*Rhode Island Department of Administration*
RMDP	*Rocky Mountain Digital Peeks*
RSAU GHANA	*Remote Sensing Applications Unit, University of Ghana*
RSL/SUT	*Remote Sensing Laboratory, Science University of Tokyo*
RU	*Rutgers University*
SATOBSYS	*Satellite Observing Systems*
SCAR	*Scientific Committee on Antarctic Research*
SCDC/IDAHO	*State Climate Data Center, Idaho*
SCEC_DC	*Southern California Earthquake Center Data Center*
SDAC	*Solar Data Analysis Center, NASA*
SDAES	*South Dakota Agricultural Experiment Station*
SDCS	*SAR Data Catalog System, JPL*
SDSMT	*South Dakota School of Mines and Technology*
SEDAC	*Socioeconomic Data and Applications Center*
SEIMAC	*Seimac Research Ltd.*
SEL	*Solar Environment Laboratory, NOAA*
SFU	*Simon Fraser University*
SGE-SPAIN	*Servicio Geographico del Ejercito (SGE), Ministerio de Defensa*
SHIRSHOV	*Shirshov Institute of Oceanology*
SICORP	*SPOT Image Corporation*
SILVER PLATTER	*Silver Platter Information*
SI/GVP	*Smithsonian Institution, Global Volcanism Program*
SIO/C4	*SIO Center for Clouds Chemistry and Climate*
SIO/CCS	*Scripps Institution of Oceanography, Center for Coastal Studies*
SIO/GRD	*Scripps Institution of Oceanography, Geological Research Division*
SIO/JEDAC	*Scripps Institution of Oceanography, Joint Environmental Data Analysis Center*
SIO/MLRG	*Scripps Institution of Oceanography, Marine Life Research Group*
SIO/PORD	*Scripps Institution of Oceanography, Physical Oceanography Research Division*
SIO/SSF	*Scripps Institution of Oceanography, Satellite Facility*

Valids	Description
SIU	*Southern Illinois University*
SKIS	*Six Kingdom Inventory System*
SMHI	*Swedish Meteorological and Hydrological Institute*
SMIPH	*Sendai Municipal Institute of Public Health*
SMM-DAC	*Solar Maximum Mission Data Analysis Center*
SNAES	*Shikoku National Agricultural Experiment Station*
SOED/EC	*State of the Environment Directorate, EC*
SPIPHES	*Shizuoka Prefectural Institute of Public Health and Environmental Science*
SPOT IMAGE	
SSC ESRANGE	*Swedish Space Corporation, Esrange Satellite Station*
SSC SATELLITBILD	*Swedish Space Corporation, Satellitbild*
SSC/NSSDC	*Satellite Situation Center, NSSDC*
SSCTR	*Stennis Space Center, NASA*
SSEOP	*Space Shuttle Earth Obs. Phot. Database, NASA*
STATSCAN	*Statistics Canada, Geography Division*
STB	*Science and Technology Branch, Ontario Min. of Env. and Energy*
STELNU	*Solar Terrestrial Environment Lab, Nagoya Univ.*
STORET	*EPA Water Data STOrage and RETrieval Data Base*
SUCESF	*SUNY College of Environmental Science/Forestry*
SUCO	*SUNY College at Oswego*
SUNY/BUFFALO	*SUNY College at Buffalo*
SUNY/STONY BROOK	*State University of New York - Stony Brook*
SWRI	*Southwest Research Institute*
TAMU	*Texas A&M University*
TAMU/GERG	*Texas A&M University, Geochemical & Environmental Research Group*
TCIPO	*TOGA COARE International Project Office*
TER	*Dept. of Earth Sciences, University of Siena*
TNCMT	*Toba National College of Maritime Technology*
TNRIS	*Texas Natural Resources Information System*
TSDC	*TOGA Subsurface Data Center*
TU	*Trent University*
TVA/ERC	*Tennessee Valley Authority/Environmental Research Center*
UA - ARIZONA	*University of Arizona*
UAF/GDC	*Univ. of Alaska Fairbanks, GeoData Center, Geophysical Institute*
UAF/IMS	*Univ. of Alaska Fairbanks, Institute of Marine Science*
UAH/ATMOS	*University of Alabama/Department of Atmospheric Sciences*
UAH/ATMOS/ESSL	*Earth System Science Laboratory, University of Alabama*
UAS/MHI	*Ukrainian Academy of Sciences/Marine Hydrophysical Institute (MHI)*
UB/CRC	*Universite de Bourgogne Centre de Recherches de Climatologie*
UBIRM	*University of Birmingham, UK*
UC/CIRES	*Univ. of Colorado, Cooperative Institute for Research in Environmental Sciences*
UC/LTER	*University of Colorado, Niwot Ridge LTER Site*

Valids	Description
UCAR/JOSS	*University Corporation for Atmospheric Research Joint Office for Science Support*
UCAR/NOAA/JOSS/CODIAC	*UCAR JOSS Cooperative Distributed Interactive Atmospheric Catalog System*
UCB	*University of California, Berkeley*
UCB/MP	*U. of California, Berkeley, Museum of Paleontology*
UCDAVIS	*University of California, Davis*
UCI	*University of California, Irvine*
UCLA/SPDC	*UCLA Space Physics Data Center*
UCR	*University of California, Riverside*
UCSB	*University of California, Santa Barbara*
UCSB/CRSEO	*UCSB, Santa Barbara Center for Remote Sensing and Env. Optics*
UDA/FS/SO-FIA	*USDA Southern Forest Experiment Station, Forest Inventory and Analysis*
UDEL/CCR	*University of Delaware Center For Climate Research*
UEL	*University of East London*
UF	*University of Florida*
UGA	*University of Georgia*
UGA/CLIM	*University of Georgia, Office of the State Climatologist*
UGA/LTER	*University of Georgia, Institute of Ecology*
UHI	*University of Hawaii*
UHI/METO	*University of Hawaii Meteorology Department*
UHI/SAC	*University of Hawaii Shipboard ADCP Center*
UHI/SOEST	*University of Hawaii School of Ocean and Earth Science and Technology*
UHI/SRSL	*University of Hawaii, Satellite Remote Sensing Laboratory*
UI	*University of Illinois*
UIA	*University of Iowa*
UIUC	*University of Illinois, Urbana-Champaign*
UK	*University of Kentucky*
UM - MICHIGAN	*University of Michigan*
UMASS/GEOL	*University of Mass., Dept. of Geosciences*
UMD/ASTRON	*University of Maryland Astronomy Department*
UMD/LGRSS	*University of Maryland, Laboratory for Global Remote Sensing Studies*
UMD/METO	*University of Maryland Meteorology Dept.*
UMD/METO/GSMDB	*Global Soil Moisture Data Bank, University of Maryland, Dept. of Meteorology*
UME	*University of Maine*
UMIAMI	*University of Miami*
UMIAMI/RSMAS	*Rosentiel School of Marine and Atmospheric Science, University of Miami*
UMN	*University of Minnesota*
UMN/LTER	*Univ. of Minnesota, Department of Ecology*
UMO	*University of Missouri*
UN/PUBLICATIONS	*United Nations, Publications Office*
UNAVCO	*University NAVSTAR Consortium*
UNE	*University of Nebraska*
UNEP	*United Nations Environment Programme*

Valids	Description
UNEP/EAD/GRID-GENEVA	*UNEP - Environment Assessment Division - Global Information Database - Geneva*
UNEP/EAP-AP (GRID-BANGKOK)	*UNEP - Environmental Assessment Programme for Asia and the Pacific*
UNEP/GRID-ARENDAL	*United Nations Environment Programme Global Resource Information Database*
UNEP/GRID-GENEVA	*United Nations Environment Programme Global Resource Information Database*
UNEP/GRID-INPE	*United Nations Environment Programme Global Resource Information Database - INPE*
UNEP/GRID-NAIROBI	*United Nations Environment Programme Global Resource Information Database*
UNEP/GRID-PAC	*UNEP - Global Resource Information Database - Programme Activity Centre*
UNEP/GRID-TSUKUBA	*UNEP / Global Resource Information Database - Tsukuba*
UNEP/GRID-WARSAW	*UNEP - Global Resource Information Database - Warsaw - Environmental Info Centre*
UNEP/HEM	*United Nations Environment Programme, Harmonization of Environmental Measurement*
UNESCO/MAB	*Man and the Biosphere Program*
UNFPA	*United Nations Population Fund*
UNIDATA	*Unidata, NSF*
UNI/ROMA	*Universita di Roma La Sapienza, Dip. Fisica*
UNMEX/EDAC	*University of New Mexico Earth Data Analysis Center*
UOK/OCS	*University of Oklahoma, Oklahoma Climatological Survey*
UOKLA	*University of Oklahoma*
UPR/TED	*University of Puerto Rico*
URI	*University of Rhode Island*
USAFETAC/OL-A	*USAF Environmental Technical Applications Center, Operating Location-A*
USAFETAC/SAFB	*USAF Environmental Technical Applications Center, Scott AFB*
USATEC	*US Army Topographic Engineering Center*
USCB	*United States Census Bureau*
USC/BARUCH/LTER	*U. of South Carolina, Baruch Inst. for Marine Biology and Coastal Research*
USDA	*United States Department of Agriculture*
USDA/ARS	*Agricultural Research Service*
USDA/ARS/NAL	*National Agricultural Library*
USDA/CSREES	*Cooperative State Research, Education, and Extension Service, USDA*
USDA/ERS	*Economic Research Service*
USDA/FS	*Forest Service*
USDA/LTER	*USDA Forest Service, Forestry Sciences Laboratory, Durham, NH*
USDA/NASS	*National Agricultural Statistics Service*
USDA/NRCS	*Natural Resources Conservation Service*
USDA/NRCS/NSSC	*National Soil Survey Center*
USDA/NRCS/WCC	*Water & Climate Center*
USDA/NRCS/WSR	*World Soil Resources*
USDA/NSTL	*National Soil Tilth Laboratory, USDA*
USDA/SCS/ALASKA	*U.S. Soil Conservation Service, Alaska*
USDA/SCS/NCG	*National Cartography and GIS Center*
USDOC	*U.S. Department of Commerce*
USF/DMS	*University of South Florida, Department of Marine Sciences*

Valids	Description
USFWS/NWI	*U.S. Fish and Wildlife Service, National Wetlands Inventory*
USGPO	*U.S. Government Printing Office*
USGS	*U.S. Geological Survey*
USGS/BARD	*USGS San Francisco Bay Area Regional Database*
USGS/BRD	*USGS Biological Resources Division*
USGS/BRD/CBI	*USGS Biological Resources Division, Center for Biological Informatics*
USGS/BRD/LSC	*USGS Biological Resources Division, Leetown Science Center*
USGS/BRD/MSC	*USGS Biological Resources Division, Midwest Science Center*
USGS/BRD/NWHC	*USGS Biological Resources Div., National Wildlife Health Center*
USGS/BRD/PATUXENT	*USGS Biological Resources Div., Patuxent Wildlife Res. Cntr.*
USGS/BRD/PATUXENT/BBL	*USGS Biological Resources Div., Patuxent Wildlife Res. Cntr., Bird Banding Lab.*
USGS/BRD/PATUXENT/BBS	*USGS Biological Resources Div.,Patuxent Wildlife Res. Cntr., Bird Breeding Surv.*
USGS/DB	*Distribution Branch, Denver*
USGS/EDC/ALASKA	*EROS Data Center, Anchorage, AK*
USGS/EDC/GLIS	*USGS, EROS Data Center, Global Land Information System*
USGS/ESIC/ANCHORAGE	*Earth Science Information Center, Anchorage, Alaska*
USGS/ESIC/D.C.	*Earth Science Information Center, Washington, D.C.*
USGS/ESIC/DENVER	*Earth Science Information Center, Denver, Colorado*
USGS/ESIC/LAKEWOOD	*Earth Science Information Center, Lakewood/Denver, Colorado*
USGS/ESIC/LOS ANGELES	*Earth Science Information Center, Los Angeles, California*
USGS/ESIC/MENLO PARK	*Earth Science Information Center, Menlo Park, California*
USGS/ESIC/RESTON	*Earth Science Information Center, Reston, Virginia*
USGS/ESIC/ROLLA	*Earth Science Information Center, Rolla, Missouri*
USGS/ESIC/SALT LAKE CITY	*Earth Science Information Center, Salt Lake City, Utah*
USGS/ESIC/SAN FRANCISCO	*Earth Science Information Center, San Francisco, California*
USGS/ESIC/SPOKANE	*Earth Science Information Center, Spokane, Washington*
USGS/ESIC/STENNIS	*Earth Science Information Center, NASA Stennis Space Center, Mississippi*
USGS/GD/ANCHORAGE	*USGS, Geology Division, Anchorage, AK*
USGS/GD/DENVER	*USGS, Geology Division, Denver*
USGS/GD/GCRP	*USGS/Geology Division/Global Change Research Program*
USGS/GD/GOLDEN	*USGS, Geology Division, Golden, CO*
USGS/GD/MENLO PARK	*USGS, Geology Division, Menlo Park, CA*
USGS/GD/RESTON	*USGS, Geology Division, Reston, VA*
USGS/GD/RESTON/WOODS HOLE	*USGS Geology Division, Reston, VA., Woods Hole, MA*
USGS/GLIS/RESTON	*USGS/Global Land Information System, Reston, VA*
USGS/ISD	*Information Systems Division*
USGS/NEIC/GOLDEN	*USGS, National Earthquake Information Center, Golden, CO*
USGS/NMD	*USGS National Mapping Division*
USGS/NMD/RESTON	*National Mapping Division, Reston, VA*
USGS/OFR	*USGS Open File Reports Section*
USGS/OFS	*USGS Open File Services Section*

Valids	Description
USGS/WHFC	*US Geological Survey, Woods Hole Field Center*
USGS/WRD/ALASKA	*USGS Water Resources Division, Anchorage, AK*
USGS/WRD/RESTON	*USGS Water Resources Division, Reston, VA*
USGS/WRMGS	*USGS Western Region Marine and Coastal Surveys*
USSR/HYDRO	*USSR Hydrographic Service, Research Oceanographic Centre*
USU/DGER	*Utah State University Department of Geography and Earth Resources*
USU/UCC	*Utah State University Utah Climate Center*
US_WOCE	*United States WOCE (World Ocean Circulation Experiment) Office*
UTASMAN	*University of Tasmania, Australia*
UTFSM	*Universidad Tecnica Federico Santa Maria*
UTOKYO/ORI	*University of Tokyo, Ocean Research Institute*
UTORONTO	*University of Toronto*
UUTAH	*University of Utah Salt Lake City*
UVA/LTER	*University of Virginia, Department of Environmental Science*
UVM	*University of Vermont*
UWA	*University of Washington*
UWA/GEOPHYS	*University of Washington, Geophysics Program*
UWA/PSC	*University of Washington/Polar Science Center*
UWI	*University of Wisconsin*
UWI/LTER	*University of Wisconsin-Madison, Department of Limnology*
UWI/MADISON/IES/CCR	*U. Wisconsin Institute for Environmental Studies, Center for Climatic Research*
UWI/MIL	*University of Wisconsin-Milwaukee*
UWI/SSEC	*University of Wisconsin, Space Science and Engineering Center*
VNIIGMI/WDC	*All Union Research Institute of Hydrometeorological Information*
VNIRO	*All-Union Research Institute for Marine Fishing and Oceanography*
VPI	*Virginia Polytechnic Institute*
VT/ANR	*Vermont Agency of Natural Resources*
VT/ANR/CGI	*Vermont Agency of Natural Resources/Center for Geographic Information*
VT/DEC	*Vermont Department of Environmental Conservation*
VUW	*Victoria University Wellington, New Zealand*
WATSTORE	*National Water Data Storage and Retrieval System, USGS*
WCMC	*World Conservation Monitoring Centre*
WDAI	*WeatherDisc Associates, Inc.*
WDC-A/GLACIOLOGY	*World Data Center-A for Glaciology*
WCC-A/HUMAN	*World Data Center-A for Human Interactions in the Environment*
WDC-A/MGG	*World Data Center-A for Marine Geology and Geophysics*
WDC-A/METEOROLOGY	*World Data Center-A for Meteorology*
WDC-A/OCEANOGRAPHY	*World Data Center-A for Oceanography*
WDC-A/PALEOCLIMATOLOGY	*World Data Center-A for Paleoclimatology*
WDC-A/REMOTE	*World Data Center-A for Remotely Sensed Land Data*
WDC-A/R&S	*World Data Center-A Rockets and Satellites, NASA*
WDC-A/ROTATION	*World Data Center-A for Rotation of the Earth*

Valids	Description
WDC-A/SEISMOLOGY	*World Data Center-A for Seismology*
WDC-A/SEG	*World Data Center-A for Solid Earth Geophysics*
WDC-A/STP	*World Data Center-A for Solar-Terrestrial Physics*
WDC-A/TRACE	*World Data Center-A for Trace Gases*
WDC-B	*World Data Center-B*
WDC-B/MG&G	*World Data Center-B for Marine Geology and Geophysics*
WDC-B/METEOROLOGY	*World Data Center-B for Meteorology*
WDC-B SEP	*World Data Center B for Solid Earth Physics*
WDC-B/RIHMI	*World Data Center-B Research Institute of Hydrometeorological Information*
WDC-B/R&S	*World Data Center-B for Rockets and Satellites*
WDC-B/ROTATION	*World Data Center-B for Rotation of the Earth*
WDC-B1/OCEANOGRAPHY	*World Data Center-B1 for Oceanography*
WDC-B2/SEG	*World Data Center-B2 for Solid Earth Geophysics*
WDC-B2/STP	*World Data Center-B2 for Solar-Terrestrial Physics*
WDC-C1/TIDES	*World Data Center-C1 for Earth Tides*
WDC-C1/GEOMAGNETISM	*World Data Center-C1 for Geomagnetism*
WDC-C1/GLACIOLOGY	*World Data Center-C1 for Glaciology*
WDC-C1/CRUSTAL	*World Data Center-C1 for Recent Crustal Movements*
WDC-C1/SOILS	*World Data Center-C1 for Soils*
WDC-C1/SOLAR	*World Data Center-C1 for Solar Activity*
WDC-C1/STP	*World Data Center-C1 for Solar-Terrestrial Physics*
WDC-C1/SUNSPOTS	*World Data Center-C1 for Sunspot Index*
WDC-C2/AIRGLOW	*World Data Center-C2 for Airglow*
WDC-C2/AURORA	*World Data Center-C2 for Aurora*
WDC-C2/COSMICRAYS	*World Data Center-C2 for Cosmic Rays*
WDC-C2/GEOMAGNETISM	*World Data Center-C2 for Geomagnetism*
WDC-C2/IONOSPHERE	*World Data Center-C2 for Ionosphere*
WDC-C2/NUCLEAR	*World Data Center-C2 for Nuclear Radiation*
WDC-C2/SOLARRADIO	*World Data Center-C2 for Solar Radio Emissions*
WDC-C2/STA	*World Data Center-C2 for Solar-Terrestrial Activity*
WDC-D/ASTRONOMY	*World Data Center-D for Astronomy*
WDC-D/GEOLOGY	*World Data Center-D for Geology*
WDC-D/GEOPHYSICS	*World Data Center-D for Geophysics*
WDC-D/GLACIOLOGY	*World Data Center-D for Glaciology and Geocryology*
WDC-D/METEOROLOGY	*World Data Center-D for Meteorology*
WDC-D/OCEANOGRAPHY	*World Data Center-D for Oceanography*
WDC-D/RR&E	*World Data Center-D for Renewable Resources & Environment*
WDC-D/SEISMOLOGY	*World Data Center-D for Seismology*
WDC-D/SPACE	*World Data Ceenter for Space Sciences*
WDCGG	*World Data Center for Greenhouse Gases*
WFF/OSB	*Wallops Flight Facility Observational Science Branch, NASA*
WHOI	*Woods Hole Oceanographic Institution*

Valids	Description
WHP_SAC	*WOCE Hydrographic Programme Special Analysis Centre*
WLDELFT	*Delft Hydraulics*
WMO	*World Meteorological Organization*
WODC	*World Ozone Data Center*
WPRCEPH	*Wakayama Prefectural Research Center of Environment and Public Health*
WRD/EC	*Water Resources Directorate, EC*
WRI	*World Resources Institute*
WSU/IAREC	*Irrigated Agriculture Research and Extension Center*
YCMT	*Yuge National College of Maritime Technology*
YNU	*Yokohama National University*
YPRIH	*Yamaguchi Prefectural Research Institute of Health*
ZA	*Zentralarchiv fuer empirische Socialforschung der Universitat zu Koeln*
ZEDX	*ZEDX Inc.*
ZUDIS	*Central Environmental Data Information System*

3.6 GeoSpatialForm

Description: A characterisation of the type of product, e.g. satellite image or map.

Sources: [FGDC *Geospatial Data Presentation Form*]

Default Valid:

Valids	Description
atlas	
diagram	
globe	
map	
model	
profile	
remote-sensing image	
section	
view	

3.7 GroupId

Description: Identification of the user groups having access to specific options, e.g. for product order options may differ for each user group.

Sources: CIP defined

Default Valid: Anonymous

Valids	Description
Anonymous	

3.8 InstrumentId

Description A short identifier (acronym) for the instrument.

Sources: [IMS *Sensor/Instrument*]

Default Valid:

Valids	Description
Accelerometer	
Air Thermometer	
Alcohol Condensing	
Algorithm	
AMI-Image	
AMI-SAR	
AMI-Wind	
AMPR	
Analysis	
Anemometer	
Aneroid Barometer	
Aneroid Sensor	
Anthrone Colorimeter	
ASASP	
ATSR	
Autoanalyzer	
AVHRR	
AVNIR-Multi	
AVNIR-Pan	
Barometer	
Bathymetric Chain	
Bathyphotometer	
Bolomet Radiometer	
Bowen Ratio Apparatus	
Bugette	
Bugeye	
Camera	
Capacitive Sensor	
Carbon Dioxide Sensor	
Carbon Plate	
Ceilometer	
Chemiluminescence	

Valids	Description
Chemiluminescent	
Chilled Mirror	
CLAES	
Climatology Database	
Clinometer	
Cloud Chamber	
CTD Recorder	
Current Meter	
CZCS	
Deiced Sensors	
DIAL	
Digitizer	
Doppler Radar	
Dry Bulb Thermometer	
Eddy Correlation Apparatus	
ERB-Scanner	
ERBE-Nonscanner	
ERBE-Scanner	
ESMR	
FID	
Filter/Fluorescence	
Flow Angle Sensors	
FSSP	
Gamma Radiation Detector	
Gas Chromatograph	
Gas Exchange System	
Geophone	
Geos-3 Altimeter	
Geosat Altimeter	
GFC Radiometer	
Grab Sample/GC-ECD	
Grab Samples/GC	
Grab Samples/HPLC	
Gust Probe	
Gypsum Block	
HALOE	
HeNe LASER/Eddy Correlation	
High Resolution Visible Sensor	
HIS	
Hot-Wire	
HRDI	
HRV-PAN	
HRV-XS	

Valids	Description
HSRL	
Human Observer	
Hydrophone	
Hygrometer	
Icing Rate Detector	
IKAR	
Inclinometer	
Infrared Radiometer	
Infrared Thermometer	
Integrating Nephelometer	
Integrating Sphere	
Ion Chromatography	
IR Carbon Dioxide Analyzer	
IR CO Analyzer	
ISAMS	
Isentropic Back Trajectory	
Jw Probe	
Kjeldahl Digestion	
KVR-1000 High Resolution Camera	
Landsat Multispectral Scanner	
Landsat Thematic Mapper	
Laser Altimeter	
Leaf Area Meter	
LIDAR	
LIMS	
Manual Interpretation	
MAS	
MCRW Refractometer	
MESSR	
Microwave Radiometer	
Microwave Sounder	
MIR	
Mist Chamber/IC	
MLS	
Model Analysis	
Modular Optoelectronic Scanner	
Modular Multiband Radiometer	
MOS	
MSR	
Multiband Leaf Radiometer	
NDIR Gas Analyzer	
Net Radiometer	

Valids	Description
Neutron Probe	
Non-Dispersive IR	
NS-001 Multispectral Scanner	
NSCAT Scatterometer	
OCTS	
OLS	
OPS	
Optical Counter	
Osmometer	
OTD	
Ozone Sensor	
Ozonesonde	
PAMS	
Parabola Radiometer	
PEM AXIS	
PEM HEPS	
PEM MEPS	
Permeameter	
PH Meter	
Photoelectric Cell	
Plant Canopy Analyzer	
Plant Stress Monitor	
Platinum Resistance	
PMS 1D-C Probe	
PMS 1D-P Probe	
PMS 2D-C Probe	
PMS 2D-P Probe	
Poseidon Altimeter	
PRARE	
Pressure Chamber	
Pressure Transducer	
Propeller Anemometer	
PRT-4	
PRT-5	
PRT-6	
Psychrometer	
Pyranometer	
Pyrgeometer	
Pyrheliometer	
Quantum Sensor	
Questionaire	
RADAR Altimeter	
Radio Altimeter	

Valids	Description
Radio Transmitter	
Radiosonde	
Reverse Flow	
RF Antenna	
RMS Pressure Var	
RTD	
Salinometer	
Sampling Bottle	
Seasat Altimeter	
Seasat Scatterometer	
SIRIS	
SMMR	
Snow Measuring Rod	
SODAR	
Soil Coring Device	
Soil Depth Probe	
Soil Gas Chamber	
Soil Heat Flux Transducer	
Soil Heat Probe	
Soil Moisture Probe	
Soil Pressure Plate	
Soil Temperature Probe	
Solar Monitor	
SOLSTICE	
Sonic Anemometer	
Space Environment Monitor	
Spaceborne Imaging Radar-C	
Spatial Coordinate Apparatus	
Spectrometer	
Spectrophotometer	
Spectroradiometer	
SSM/I	
SSM/T1	
SSM/T2	
SODAR	
Steel Measuring Tape	
Stilling Well	
Stream Gauge	
Stress Sensor	
Sun Photometer	
Sunfleck Ceptometer	
SUSIM	
SVISSR	

Valids	Description
SWIR	
Tamms/Lyman-Alpha Hygrometer	
Tamms/Nitric Oxide Chemilum	
Tamms/Platinum Resistance	
Tamms/Tunable Laser	
Temperature Probes	
Tethered Balloon	
Thematic Mapper Simulator	
Thermistor	
Thermocouple	
Tide Gauge	
Time Domain Reflectometer	
TIMS	
TOMS	
Topex Altimeter	
Topex Microwave Radiometer	
TOVS-MSU	
TOVS-SSU	
TOVS-HIRS	
TOVS-MSU-E	
TOVS-MSU-SK	
TP/LIF	
Transponder	
Tunable Diode Laser	
UV Absorption	
Variable Capacitance	
Video Camera	
VIL	
VISSR	
VNIR	
VTIR	
Water Thermometer	
Weighing Balance	
Wet Bulb Thermometer	
Wind Profiler	
Wind Scatterometer	
Windii	
WSR-57S	
WSR-74C	
WSR-88D	

3.9 ItemDescriptorLanguage/ ItemLanguage

Description (ItemDescriptorLanguage) The language in which the item descriptor is defined.

Description (ItemLanguage) The language in which any textual information within the deliverable item is defined.

Sources: [ISO-L]

Default Valid: *English*

Valids (ISO-639 code)	**Description**
ab	*Abkhazian*
om	*Afan Oromo*
aa	*Afar*
af	*Afrikaans*
sq	*Albanian*
am	*Amharic*
ar	*Arabic*
hy	*Armenian*
as	*Assamese*
ay	*Aymara*
az	*Azerbaijani*
ba	*Bashkir*
eu	*Basque*
bn	*Bengali*
dz	*Bhutani*
bh	*Bihari*
bi	*Bislama*
br	*Breton*
bg	*Bulgarian*
my	*Burmese*
be	*Byelorussian*
km	*Cambodian*
ca	*Catalan*
zh	*Chinese*
co	*Corsican*
hr	*Croatian*
cs	*Czech*
da	*Danish*
nl	*Dutch*
en	*English*
eo	*Esperanto*
et	*Estonian*
fo	*Faroese*
fj	*Fiji*

Valids (ISO-639 code)	Description
fi	*Finnish*
fr	*French*
fy	*Frisian*
gl	*Galician*
ka	*Georgian*
de	*German*
el	*Greek*
kl	*Greenlandic*
gn	*Guarani*
gu	*Gujarati*
ha	*Hausa*
iw	*Hebrew*
hi	*Hindi*
hu	*Hungarian*
is	*Icelandic*
in	*Indonesian*
ia	*Interlingua*
ie	*Interlingue*
ik	*Inupiak*
ga	*Irish*
it	*Italian*
ja	*Japanese*
jv	*Javanese*
kn	*Kannada*
ks	*Kashmiri*
kk	*Kazakh*
rw	*Kinyarwanda*
ky	*Kirghiz*
rn	*Kirundi*
ko	*Korean*
ku	*Kurdish*
lo	*Laothian*
la	*Latin*
lv	*Lettish*
ln	*Lingala*
lt	*Lithuanian*
mk	*Macedonian*
mg	*Malagasy*
ms	*Malay*
ml	*Malayalam*
mt	*Maltese*
mi	*Maori*

Valids (ISO-639 code)	Description
mr	*Marathi*
mo	*Moldavian*
mn	*Mongolian*
na	*Nauru*
ne	*Nepali*
no	*Norwegian*
oc	*Occitan*
or	*Oriya*
ps	*Pashto*
fa	*Persian*
pl	*Polish*
pt	*Portuguese*
pa	*Punjabi*
qu	*Quechua*
rm	*Rhaeto-Romance*
ro	*Romanian*
ru	*Russian*
sm	*Samoan*
sg	*Sangho*
sa	*Sanskrit*
gd	*Scots Gaelic*
sr	*Serbian*
sh	*Serbo-Croatian*
st	*Sesotho*
tn	*Setswana*
sn	*Shona*
sd	*Sindhi*
si	*Singhalese*
ss	*Siswati*
sk	*Slovak*
sl	*Slovenian*
so	*Somali*
ese	*Spanish*
su	*Sundanese*
sw	*Swahili*
sv	*Swedish*
tl	*Tagalog*
tg	*Tajik*
ta	*Tamil*
tt	*Tatar*
te	*Telugu*
th	*Thai*

Valids (ISO-639 code)	Description
bo	*Tibetan*
ti	*Tigrinya*
to	*Tonga*
ts	*Tsonga*
tr	*Turkish*
tk	*Turkmen*
tw	*Twi*
uk	*Ukrainian*
ur	*Urdu*
uz	*Uzbek*
vi	*Vietnamese*
vo	*Volapük*
cy	*Welsh*
wo	*Wolof*
xh	*Xhosa*
ji	*Yiddish*
yo	*Yoruba*
zu	*Zulu*

3.10 LocalUseAttributeFlag

Description: Flag indicating whether:

a collection has no local attributes (value = 0)

a collection has local attributes defined within the collection descriptor (value = 1)

a collection has local attributes defined in the Explain database (value = 2)

Sources: CIP defined

Default Valid: *0*

Valids	Description
0	*A collection has no local attributes*
1	*A collection has local attributes defined within the collection descriptor*
2	*A collection has local attributes defined in the Explain database*

3.11 MissionId

Description: Unique code for the satellite/mission.

Sources: [IMS *Source/Platform*]

Default Valid:

Valids	Description
ADEOS-I	
AEM-2	
Air Droppable Buoy	
Aircraft (unspecified Types)	
AOML Drifting Buoy	
ARAT Fokker F-27	
ARGOS Drifting Buoy	
Bandeirante	
C-130	
Climatology Fields	
Computer Model	
Constant Density Balloon	
COSMOS	
Digital Elevation Model	
DMSP-5B-F3	
DMSP-F1	
DMSP-F10	
DMSP-F11	
DMSP-F12	
DMSP-F13	
DMSP-F14	
DMSP-F7	
DMSP-F8	
DMSP-F9	
Drifting Buoy	
ECMWF	
ERBS	
ERS-1	
ERS-1 Gravity Field Model	
ERS-1 Sea Surface Height Model	
ERS-2	
ERS-2 Gravity Field Model	
ERS-2 Sea Surface Height Model	
FAO Soil Maps	
Field Investigation	
Field Survey	
FY2-B	
Geos-3	
Geosat	
GMS (UNSPECIFIED)	
GMS-1	
GMS-2	
GMS-3	

Valids	Description
GMS-4	
GMS-5	
GOES (UNSPECIFIED)	
GOES-5	
GOES-6	
GOES-7	
GOES-8	
GOES-W	
GOME	
Ground Station	
Helicopter	
Human Observer	
Ice Charts	
INSAT-1	
IRS-P3	
JERS-1	
Kingair	
Laboratory	
Landsat	
Landsat-1	
Landsat-2	
Landsat-3	
Landsat-4	
Landsat-5	
Lightning Detection Network	
LODYC Atlantic Ocean Model	
MEDS Drifting Buoy	
Meteor-3	
Meteorological Station	
METEOSAT (UNSPECIFIED)	
METEOSAT-1	
Meteosat-2	
Meteosat-3	
Meteosat-4	
Meteosat-5	
METEOSAT-6	
Meterological Station	
Microlab-1	
MIR-PRIRODA	
MOS-1	
MOS-1B	
NASA C-130B	
NASA DC8	

Valids	Description
NASA Electra	
NASA ER-2	
NASA Learjet	
NCAR Electra	
NCAR Kingair	
NCAR Sabreliner	
NDBC Moored Buoy	
Nimbus-5	
Nimbus-7	
NOAA-10	
NOAA-11	
NOAA-12	
NOAA-13	
NOAA-14	
NOAA-5	
NOAA-6	
NOAA-7	
NOAA-8	
NOAA-9	
Operational Navigation Charts	
Photosynthesis Chamber	
PMEL Moored Buoy	
Polar Stereographic Sea Ice Concentration Grids	
Radar Network	
Radarsat-1	
RESURS-01-03	
Seasat	
Ship	
Snow Charts	
Soil Survey	
Spear Buoy	
SPOT	
SPOT-1	
SPOT-2	
SPOT-3	
SRL-1	
SRL-2	
Stereo Photogrammetry Scannings	
Streamflow Station	
STS-41-G	
STS-59	
STS-68	
Surface Water Weir	

Valids	Description
Tide Models	
TIROS-N	
TOGA-TAO Moored Buoy	
Topex/Poseidon	
Tower	
Twin Otter	
UARS	
UK C130	
Ultralight	
UND Citation	
UNESCO	
UW C131	
Vegetation Survey	
Watstore	
Weather Balloon	

3.12 ProcessingCentre

Description: Contains the short name of the data centre that has generated the data.

Sources: [ECS]

Default Valid:

Valids	Description
GSFC	*Goddard Space Flight Center*
LaRC	*Langley Research Center*
ORNL	*Oak Ridge National Laboratory*
EDC	*EROS Data Center*
NSIDC	*National Snow and Ice Data Center*
JPL	*Jet Propulsion Laboratory*
CIESIN	*Consortium for International Earth Science Information Network*
EDOS	*EOS Data and Operations System*
MISR SCF	*MISR Science Computing Facility*
SAGE III SCF	*SAGE III Science Computing Facility*
ERSDAC	*Earth Remote Sensing Data Analysis Center in Japan*

3.13 ProcessingLevelId

Description: This parameter identifies the processing level of the data in the archive

Sources: [ECS]

Default Valid: *Not Available*

Valids	Description
0	*Raw instrument data at original resolution, time ordered, with duplicate packets removed.*
1A	*Level 0 data, which may have been reformatted or transformed reversibly, located to a coordinate system and packaged with needed ancillary and engineering data.*
1B	*Radiometrically corrected and calibrated data in physical units at full instrument resolution as acquired.*
2	*Retrieved environment variables (e.g. ocean wave height, soil moisture, ice concentration) at the same location and similar resolution the Level 1 source data.*
3	*Data or retrieved environmental variables that have been spatially and/or temporarily resampled (i.e. derived from Level 1 or Level 2 data products). Such resampling may include averaging and compositing.*
4	*Model output and/or variables derived from lower level data which are not directly measured by the instruments. For example, new variables based upon a time series of Level 2 or Level 3 data.*
Not Available	*Information not available*

3.14 ProcessingType

Description: Type of processing, e.g. 'colour image product', 'GTC with DTM information'.

Sources: CIP defined

Default Valid:

Valids	Description
Colour Image Product	
GTC with DTM information	

3.15 ProjectName

Description: This element should be supplied when there is a relationship of the collection to a campaign or project (e.g. WOCE, FIRE, PROMIS, etc.). Campaigns or projects usually encompass data from a number of diverse data sources. The element includes both short and long names.

Sources: [GCMD *Project/Campaign*]

Default Valid:

Valids	Description
A&RW/SJC	*Aerosols and Rain Water at Sao Jose dos Campos,SP, Brazil*
AAOE	*Airborne Antarctic Ozone Experiment*
AASE	*Airborne Arctic Stratospheric Expedition*
AASE-II	*Airborne Arctic Stratospheric Expedition-II*
ABRACOS	*Anglo-Brazilian Amazonian Climate Observation Study*
ACDCA	*Antarctic Inspections Cruise*
ACID-MODES	*Acid Model Operational Diagnostic Evaluation Study*
ACR	*Antarctic Climate Research*

Valids	Description
AEOLUS 1980	*Atmospheric Experiment on Orographic Flows, Lee Waves, Upslope Snowstorms*
AFEAS	*Alternative Fluorocarbons Environmental Acceptability Study*
AGASP	*Arctic Gas and Aerosol Sampling Program*
AIDJEX	*Artic Ice Dynamics Joint Experiment*
AIRMON	*Air Monitoring Network - Dry Deposition*
AIRSTREAM	
AJAX	
ALE/GAGE	*Atmospheric Lifetime Experiment/Global Atmospheric Gases Experiment*
ALIVE	*Army Lidar Verification Experiment*
ALPEX	*Alpine Experiment*
AMASSED	*Amazon Shelf Sediment Study*
AMEX/EMEX	*Australian Monsoon Experiment*
AMIP	*Atmospheric Model Intercomparison Project*
ANT-VI/3	*Structure of the Continental Margin in the Weddell Sea and Adjacent Areas*
ANT-VIII/5	*Structure of the Continental Margin in the Weddell Sea and Adjacent Areas*
ANT-X/2	*Structure of the Continental Margin in the Weddell Sea and Adjacent Areas*
ANT-XII/2	*Structure of the Continental Margin in the Weddell Sea and Adjacent Areas*
APEX	*Arctic Polynya Experiment*
APIOS	*Acid Precipitation In Ontario Study*
ARB	*Aerosol Research Branch Light Detection and Ranging Project*
ARCSS/LAII	*Arctic System Science/Land-Atmosphere-Ice Interaction*
ARCTIC'91	*Structure of the Oceanic Lithosphere of the Arctic Ocean*
ARK-V/3B	*Structure of the East Greenland Continental Margin*
ARK-VII/3B	*Structure of the East Greenland Continental Margin*
ARK-X/2	*Structure of the East Greenland Continental Margin*
ARM	*Atmospheric Radiation Measurement Project*
ARMCAS	*Arctic Radiation Measurement in Column Atmosphere Surface*
ARSLOE	*Atlantic Remote Sensing Land/Ocean Experiment*
ARTEMIS	*UN/FAO Africa Real Time Environmental Monitoring Using Imaging Satellites*
ASHCAN	
ASTEX	*Atlantic Stratocumulus Transition Experiment*
ATLANTA EXPERIMENT	*Atlanta International Airport Experiment*
ATLAS	*Atmospheric Laboratory for Applications and Science*
ATMOSPHERIC DRAG EXPERIMENT	
AVE	*Atmospheric Variability Experiment*
AVHRR PATHFINDER	*AVHRR Land Dataset Program*
AVHRR 1-KM PATHFINDER	
AWDN	*Automated Weather Data Network*
BAPMON	*Background Air Pollution Monitoring Network*
BASICS	*Bering Air-Sea-Ice Study*
BBS	*Bird Breeding Survey*
BCI	*Bat Conservation International*

Valids	Description
BD CARTO	*French Cartographic Database*
BIO_BURN	*Biomass Burning Project*
BIOMASS	*Biological Investigations of Marine Antarctic Systems and Stocks*
BIOQUIMICA_APLICADA	*Biochemical and Nutritional Studies on Antarctic*
BLAST	*Bromine Latitudinal Air/Sea Transect*
BMDO	*Ballistic Missile Defense Organization*
BOFS	*Biogeochemical Ocean Flux Study*
BOMEX	*Barbados Oceanographic and Meteorological Experiment*
BOREAS	*The Boreal Ecosystem-Atmosphere Study*
BRFEX	*Boardman Regional Flux Experiment (DOE ARM)*
CALCOFI	*California Cooperative Oceanic Fisheries Investigations*
CAMEX	*Convection and Moisture Experiment*
CAMP	*California Monitoring Program*
CAPE	*Convection and Precipitation/Electrification Experiment*
CAPMON	*Canadian Air and Precipitation Monitoring Network*
CBC	*Christmas Bird Counts*
CCAP	*Coastal Change Analysis Project*
CCCCS	*Central California Coastal Circulation Study*
CDRK	*Carbon Dioxide Research of Kanagawa*
CEAREX	*Coordinated Eastern Arctic Experiment*
CEPEX	*Central Equatorial Pacific Experiment*
CERES	*Clouds and Earth Radiant Energy System*
CGC	*NOAA Climate and Global Change Program*
CHARTERBOAT SURVEY	
CI2	*Cirrus Experiment*
CIBAC	
CILAT	
CLARET	*Cloud Lidar And Radar Exploratory Study*
CLIMAP	*Climate - Long Range Investigation, Mapping and Prediction*
CLIMPROB	*Guiding/Assisting Agroclimatic Decision Making Program*
CLIVAR	*Climate Variability*
CMDL	*Climate Monitoring and Diagnostics Laboratory (NOAA)*
CMIP	*Coupled Model Intercomparison Project*
COADS	*Comprehensive Ocean Atmosphere Data Set*
CODE	*Coastal Ocean Dynamics Experiment*
COHMEX	*Cooperative Huntsville Monsoon Experiment*
COLD	*Coupled Ocean-Ice Linkages & Dynamics*
COMET	*Cooperative Program for Operational Meteorology, Education, and Training*
COMEX	
CONFLUENCIA_WEDDELL-SCOTIA	
COP	*Coastal Ocean Program*
CORE	*Coastal Ocean Response Experiment*

Valids	Description
COROAS	*Oceanic Circulation in the Western Region of the South Atlantic*
COSPAR	*Committee on Space Research*
CREDDP	*Columbia River Estuary Data Development Program*
CRREL	*U.S. Army Cold Regions Research and Engineering Laboratory*
CUENCAS_SEDIMENTARIAS	
CURTAIN I-VIII	
DINOCEANTAR	*Dinamica_Oceanica_Antartica*
DMSP	*Defense Meteorological Satellite Program*
DNAG	*Decade of North American Geology*
DOERAP	*Department of Energy Resource Assessment Program*
DOMES	*Deep Ocean Mining Environmental Study*
DSDP	*Deep Sea Drilling Program*
DULLES EXPERIMENT	*Dulles International Airport Experiment*
DUNDEE	*Down-Under Doppler and Electricity Experiment*
EASOE	*European Arctic and Stratospheric Ozone Experiment*
EASTROPAC	*Eastern Tropical Pacific*
EBC	*Eastern Boundary Current*
ECLIPS	*Experimental Cloud Lidar Pilot Study*
ECOLOGIA_DEL_PLANCTON	
EDIMS	*UNH Environmental Data and Information Management System*
EFX	*Elkins Flux Experiment*
EGMEX	*Eastern Gulf of Mexico*
EMEFS	*Eulerian Model Evaluation Field Study*
ENERGIAS_NO_CONVENCIONALES	*Vulcanologia Monitoreo*
EOLE	
EOS	*Earth Observing System*
EOSAP	*Earth Observing System Amazon Project*
EOSDIS	*Earth Observing System Data Information System*
EPA CTMD PROGRAM	*EPA Complex Terrain Model Development Program*
EPA GCRP	*EPA Global Change Research Program*
EPOCS	*Equatorial Pacific Ocean Climate Studies*
ERAQS	*Eastern Regional Air Quality Study*
ERBE	*Earth Radiation Budget Experiment*
ERICA	*Experiment Rapidly Intensifying Cyclones Atlantic*
ERM	*Exact Repeat Mission*
ESTN	*Estuarine Nitrogen*
EUBEX	*Eurasian Basin Experiment*
FADMP	*Florida Acid Deposition Monitoring Program*
FADS	*Florida Acid Deposition Study*
F DRAKE	*First Dynamic Response and Kinematic Experiment in the Drake Passage*
FIFE	*First ISLSCP Field Experiment*
FIRE	*First ISCCP Regional Experiment*

Valids	Description
FIRE II	*First ISCCP Regional Experiment - Cirrus II*
FIRE/MTV	*Fire in Global Resources and Environmental Monitoring*
FLARES 22	*Flares Research at the Maximum of Solar Cycle 22*
FLEX	
FLORENCE	*FLux Oceaniques Restitues par bilan d'ENergie a la surfaCE*
FOCAL	*Programme Francais Ocean et Climat dans l'Atlantique Equatorial*
FOCI	*Fisheries Oceanography Cooperative Investigation*
FORAST	*Forest Response to Anthropogenic Stress*
FRAQS	*Front Range Air Quality Study*
FRENTES_OCEANICOS	
FRLAB	*Front Range Lidar and Ballon Experiment 3*
GALE	*Genesis of Atlantic Lows Experiment*
GALVESTON BAY BAIT SURVEY	
GAMETAG	*Global Atmospheric Measurements Experiment on Tropospheric Aerosols and Gases*
GANOVEX VI	*Aeromagnetic Investigations in North Victoria Land*
GARP/FGGE	*Global Atmospheric Research Program/First Garp Global Experiment (GARP/FGGE)*
GATE	*GARP Atlantic Tropical Experiment*
GAW	*Global Atmosphere Watch*
GCCHP	*Global Change Climate History Project*
GCIP	*GEWEX Continental-Scale International Project*
GCOS	*Global Climate Observing System*
GCPS	*Global Climate Perspectives System*
GEIA	*Global Emissions Inventory Activity*
GEOSCOPE	*Interactive Global Change Encyclopedia*
GEOSECS	*Geochemical Ocean Section Study*
GEWEX	*Global Energy and Water Cycle Experiment*
GGBRB	*Geochemistry and Geophysics of the Buquira River Basin*
GGD	*Global Geocryological Database*
GHCN	*Global Historical Climatology Network*
GIG91	*GPS IERS and Geodynamics Experiment*
GLOBE	*Global Learning and Observations to Benefit the Environment*
GLOBEC	*Global Ocean Ecosystems Dynamics*
GLOBMET	*Global Meteor Observation System*
GLOSS	*Global Sea Level Observing System*
GMCC	*Geophysical Monitoring for Climate Change (NOAA)*
GNIS	*Geographic Names Information System*
GOALS	*Global Ocean Atmosphere Land System*
GOMPOP	*Gulf of Mexico Physical Oceanography Program*
GONG	*Global Oscillation Network Group*
GOOS	*Global Ocean Observing System*
GPCC	*Global Precipitation Climatology Center Project*
GPCP	*Global Precipitation Climatology Project*

Valids	Description
GPS/MET	*Global Positioning System Meteorology Experiment*
GRAVSAT	
GRSFE	*Geologic Remote Sensing Field Experiment*
GTOPO30	*Global 30-Arc-Second Elevation Data Set*
GTE	*Global Tropospheric Experiment*
GTMS	*Global Thermosphere Mapping Study*
GUSREX	*Gulf Stream Recirculation Experiment*
HASP	*High Altitude Sampling Program*
HCN	*Historical Climatology Network*
HIELOANTAR	*Antarctic Glaciology*
HOT	*Hawaiian Ocean Time Series Project*
HSRP	*High Speed Research Program*
IBSS	*Infrared Background Signature Survey*
ICITA	*International Cooperative Investigations of the Tropical Atlantic*
ICRCCM	*Intercomparison of Radiation Codes in Climate Models*
IDOE	*International Decade of Ocean Exploration*
IDS-LSC	*Interdisciplinary Sciences-Land Surface Climatology*
IERS	*International Earth Rotation Service*
IFS	*Integrated Forest Study*
IGAC	*International Global Atmospheric Chemistry*
IGBP	*International Geosphere Biosphere Program*
IGCP	*International Geological Correlation Program*
IGOSS	*Integrated Global Ocean Services System*
IGS	*International GPS Geodynamics Service*
ILS	*International Latitude Service*
IMMUNOLOGY	*Study of Human Response to Antarctic Environment*
IMS	*International Magnetosphere Study*
INDIGO	*Indien Gaz Ocean*
INTERCAMBIO_CALORICO	*Study of Food Intake, Calories and Heat Production in Humans in Antarctica*
INTERKOSMOS	
IPA	*International Permafrost Association*
IPCC	*Intergovernmental Panel on Climate Change*
IPMS	*International Polar Motion Service*
IPOD	*International Phase of Ocean Drilling*
ISCCP	*International Satellite Cloud Climatology Project*
ISLSCP	*International Satellite Land Surface Climatology Project*
ISLSCP INITIATIVE-I	*International Satellite Land Surface Climatology Project Initiative-I*
ISMEX	
ISOS	*International Southern Ocean Studies*
IXTOC	
JAPACS	*Japanese Pacific Climate Studies*
JARE 18	*Japanese Antarctic Research Expedition 18*

Valids	Description
JARE 20	*Japanese Antarctic Research Expedition 20*
JARE 21	*Japanese Antarctic Research Expedition 21*
JARE 22	*Japanese Antarctic Research Expedition 22*
JARE 23	*Japanese Antarctic Research Expedition 23*
JARE 24	*Japanese Antarctic Research Expedition 24*
JARE 25	*Japanese Antarctic Research Expedition 25*
JARE 26	*Japanese Antarctic Research Expedition 26*
JARE 27	*Japanese Antarctic Research Expedition 27*
JARE 28	*Japanese Antarctic Research Expedition 28*
JARE 31	*Japanese Antarctic Research Expedition 31*
JARE	*Japanese Antarctic Research Expedition*
JASIN78	*Joint Air-Sea Interaction Project*
JAWS	*Joint Airport Weather Study*
JC-JSOD	*Japan-China Joint Study on Desertification*
JGOFS	*Joint Global Ocean Flux Study*
JONSDAP76	*Joint North Sea Data Acquisition Project*
JONSWAP	*Joint North Sea Wave Project*
L-RERP	*Puget Sound Long-Range Effects Program*
LAKE MICHIGAN ECOL. MONITOR	
LARGE SCALE PROJECT	
LBA	*Large Scale Biosphere-Atmosphere Experiment in Amazonia*
LEADEX	*Arctic Leads Experiment*
LEADS ARI	*Office of Naval Research Arctic Leads Accelerated Research Initiative*
LIS	*Lightning Imaging Sensor Project*
LMOS	*Lake Michigan Ozone Study*
LOIS	*Land Ocean Interaction Study*
LOWS	*Lake Ontario Winter Storms Experiment*
LTER	*Long-Term Ecological Research*
MAGNET	
MAP	*Middle Atmosphere Program*
MAP3S	*Multistate Atmospheric Power Production Pollution Study*
MAP/WINE	*Middle Atmosphere Program/Winter in Northern Europe*
MARINE_MAMMALS_PROGRAM	*Marine Mammals Dynamic Population in South Orkney Is. & South Shetland Is.*
MARIS	*Multi Aquatic Resource Information System*
MARMAP	*Marine Resources, Monitoring, Assessment and Prediction*
MARPOLMON	
MASAR	*Mid Atlantic Slope Rise Experiment*
MAST	*Monterey Area Ship Tracks*
MAX91	*The U.S. Max '91 Program of Flare Research Campaigns*
MECCA	*Model Evaluation Consortium for Climate Change Assessment*
MECHANISM ON ASIAN MONSOON	
MEDALPEX	*Mediterranean Alpine Experiment*

Valids	Description
MEDIO_AMBIENTE	
MERIT	*Monitoring Earth Rotation and Intercompare Techniques*
MESA	*Marine Ecosystems Analysis (Puget Sound) Project*
MESOGAMM 86	
MINERAL RESOURCES	*SISMOANTAR*
MIZEX	*Marginal Ice Zone Experiment*
MIZEX-WEST	*Marginal Ice Zone Experiment-West*
MIZPAC	*Marginal Sea Ice Zone Pacific*
MOHAVE	*Measurement of Haze and Visual Effects*
MONEX	*Monsoon Experiment*
MONITOREO_DE_ECOSISTEMAS	*Penguin Monitoring of Antarctic Peninsula, South Orkney Is., South Shetland Is.*
MRS	*Marine Remote Sensing*
NADP	*National Atmospheric Deposition Program*
NANSEN	*North Atlantic Norwegian Sea Exchange*
NBIOME	*Northern Biosphere Observation and Modelling Experiment*
NCCCS	*Northern California Coastal Circulation Study*
NCSS	*National Cooperative Soil Survey*
NCTS	*Northern California Transport Study*
NDSC	*Network for Detection of Stratospheric Change*
NDTP	*North Dakota Thunderstorm Project*
NEI	*National Estuarine Inventory*
NEMP	*Northeast Monitoring Program*
NEXRAD	*NEXt Generation Weather RADar*
NICAL	
NIN	*Northern Information Network*
NOAA/NASA PATHFINDER	*NOAA/NASA Pathfinder Program*
NORPAX	*North Pacific Shuttle Experiment*
NORSWAM	*North Sea Wave Model*
NS&T	*National Status and Trends Program*
NSTS	*Nearshore Sediment Transport Study*
NTN	*National Trends Network*
NVAP	*NASA Water Vapor Project*
NWI	*National Wetlands Inventory*
O'HARE EXPERIMENT	*O'Hare Airport Experiment*
OAXTC	*Ocean/Atmosphere Exchange of Trace Compounds*
OCEAN	*Ocean Color European Archive Network*
OCEANOGRAFIA_COSTERA	
OCRS	*Ocean Color Remote Sensing*
OCS	*Outer Continental Shelf Program*
OCSEAP	*Ocean Continental Shelf Environmental Assessment Project*
ODP/DSDP	*Ocean Drilling Program / Deep Sea Drilling Project*
OEN	*Operational Evaluation Network*

Valids	Description
ONR OCEAN OPTICS	*Office of Naval Research Ocean Optics*
OOFASH	*Oceanographic Observations of Fisheries at the Adjacent Seas of Hokkaido*
OPUS	*Observations of Persistent Upwelling Structures*
OTEC	*Ocean Thermal Energy Conversion*
OTTER	*Oregon Transect Ecosystem Research Project*
PACS	*Pan-American Climate Studies*
PAGES	*Past Global Changes Project*
PALEOMAP	*PALEOMAP Project*
PARCA	*Program in Arctic Regional Climate Assessment*
PCMDI	*Program for Climate Model Diagnoses and Intercomparison*
PFSFC	*Project on the Forecast of Sea and Fishing Conditions*
PMV	*Plume Model Validation and Development Study*
PNRA	*Programma Nazionale di Ricerche in Antartide*
POLYMODE	
PRECP-V	*Processing of Emissions by Clouds and Radiation V*
PREOPERATIONAL SURVEY OF A DUMP	*Preoperational Survey of a Dumping Site of Low-Level Radioactive Wastes*
PRIRODA	*PRIRODA International Scientific Remote Sensing Project*
PRISM	*Pleistocene, Research, Interpretation, and Synoptic Mapping Project*
PRISM/OCS	*Parameter-elevation Regressions on Independent Slopes*
PROBE	*Pilot Radiation Observation Experiment*
PROBES	*Processes and Resources of the Bering Sea Shelf*
PTP	*Pamir-Tienshan Project*
PYS	*Project of Yatsushiro Sea*
RADAM	
RECURSOS_MINERALES	
RITS 89	*Radiatively Important Trace Species 1989*
ROME	
ROSE	*Rural Oxident in a Southern Environment*
RSS	*Reflection Seismic Survey*
SAGA	*Andes Project*
SAGA II/III	*Soviet/American Gas and Aerosol Expedition*
SAGE I	*Stratospheric Aerosol and Gas Experiment I*
SAGE II	*Stratospheric Aerosol and Gas Experiment II*
SAHEL_NAFR	*Sahelian and NW Africa 14-Day NDVI Composites*
SAM-II	*Stratospheric Aerosol Measurement II*
SAR	*Species At Risk*
SBC/SMB	*Santa Barbara Channel/Santa Marine Basin Study*
SBCS	*Santa Barbara Channel Study*
SCAR_A	*Sulfates, Clouds and Radiation America*
SCAR-B	*Smoke, Clouds, and Radiation - Brazil*
SCENES	*Subregional Cooperative Electric Utility, NPS and EPA Study*
SCTS	*Southern California Transport Study*

Valids	Description
SEATAR	*Studies of East Asia Tectonics and Resources*
SEDBAS	*Sedimentary Basins*
SESAME	*Second European Stratospheric Arctic and Mid-Latitute Experiment*
SEQUAL	*Seasonal Response of the Equatorial Atlantic*
SICPP	*Seasonal-to-Interannual Climate Prediction Program*
SIZEX	*Seasonal Ice Zone Experiment*
SJVAQS	*San Joaquin Valley Air Quality Study*
SMILE	*Shelf Mixed Layer Experiment*
SNF	*Superior National Forest*
SO-FIA	*Southern Forest Experiment Station/Forest Inventory and Analysis*
SOS	*Southern Oxidants Study*
SOUTH.CAL.OCS BASELINE	
SPARCE	*Schools of the Pacific Rainfall Climate Experiment*
SPECMAP	
SPECTRE	*Spectral Radiance Experiment*
SPREX	*Spring Removal Experiment*
SRB	*Surface Radiation Budget*
SSE	*Surface Solar Energy*
SSEOP	*Space Shuttle Earth Photographs Observation Project*
STACS	
STARDUST	
STEP	*Stratosphere-Troposphere Exchange Project*
STERNA92	
STLHBA	*Submarine Topography of Lutzow-Holm Bay, Antarctica*
STORM-FEST	*STORM-Fronts Experiment Systems Test*
STRAT	*Stratospheric TRacers of Atmospheric Transport Mission*
STREX	*Storm Transfer and Response Experiment*
SUCCESS	*Subsonic Aircraft Contrail and Cloud Effects Special Study*
SURE	*Sulfate Regional Experiment*
SWAMP	*Southwest Area Monsoon Project*
TARFOX	*Tropospheric Aerosol Radiative Forcing Observational Experiment*
TBS	
TCM-90	*Tropical Cyclone Motion*
TIWE	*Tropical Instability Wave Experiment*
TOGA	*Tropical Ocean Global Atmosphere*
TOGA COARE	*TOGA Coupled Ocean Atmosphere Response Experiment*
TOVS PATHFINDER	*TOVS Path A*
TRANPAT	*Antarctic Peninsula Magnetotelluric Transects*
TRANSPAC	
TTO	*Transient Tracers Oceans Experiment*
TWERLE	
UAPSP	*Utility Acid Precipitation Study Program*

Valids	Description
UARS	*Upper Atmosphere Research Satellite*
UK CLIMATE RESEARCH PROGRAMME	
UNEP/GRID	*UNEP/Global Resources Information Database*
USAC	*Airbone Magnetics and Gravity in Weddell Sea, Antarctica*
USARP	*U.S. Antarctic Research Program*
USDA/UVB	*USDA UV-B Radiation Monitoring Program*
USGS/EDC/SAST	*USGS EDC Scientific Assessment and Strategy Team*
VIVALDI91	
VOCAR	*Variability of Coastal Atmospheric Refraction*
WAMEX	*West African Monsoon Experiment*
WATOX	*Western Atlantic Ocean Experiment*
WCRP	*World Climate Research Program*
WDC-C2/IONOSPHERE	*World Data Center-C2 for Ionosphere*
WEPOLEX	*Weddell Polynya Expedition*
WETNET	
WINCE	*Winter Cloud Experiment*
WISC	*Wisconsin Acid Deposition Monitoring Network*
WISP	*Winter Icing and Storms Project*
WOCE	*World Ocean Circulation Experiment*
WQRSBMP	*Water Quality Research of Shizugawa Bay of Miyagi Prefecture*
WW2010	*The Weather World 2010*
WWCA	*World Water and Climate Atlas*

3.16 Role

Description: The role of a person for the collection.

Sources: CIP defined

Default Valid: *Administrator*

Valids	Description
Administrator	*Contact person in case of system related problems..*
Technical	*Contact person in case of technical questions related to a collection, search optimistion.*
Investigator	*Contact person in case of scientific questions related to a collection.*

3.17 Scale

Description: The scaling used for the data (e.g. map).

Sources: [CEO]

Default Valid:

Valids
> 1:500
> 1:500-1:5 000
> 1:5 000-1:10 000
> 1:10 000-1:25 000
> 1:25 000-1:50 000
> 1:50 000-1:100 000
> 1:100 000-1:250 000
> 1:250 000-1:500 000
> 1:500 000-1:1 000 000
> < 1:1 000 000

3.18 ScienceReviewStatus

Description: Type of review which occurred on the Science Review Date.

Sources: ECS

Default Valid:

Valids	Description
QA within Software	*Within the science team algorithm processing software, initial QA can be built in during the routine processing/generation of the data*
QA at DAACS	*In general the DAAC's QA role would be to ensure that the data are generated within the quality specifications defined by the science teams.*
QA at SCF	*Portions of the data products would be examined at the SCFs.*
QA by data consumers	*As data products are utilized by the users, another level of QA will take place.*
None	*None applies to those data which are ingested from external sources and are not known to have been subjected to any form of quality assurance, or have quality ratings for which the definitions are not available.*

3.19 SensorId

Description A mnemonic or otherwise abbreviated version (acronym) for the sensor.

Sources: [IMS]

Default Valid:

Valids
Accelerometer
Air Thermometer
Alcohol Condensing
Algorithm
AMI-Image
AMI-SAR
AMI-Wind

Valids
AMPR
Analysis
Anemometer
Aneroid Barometer
Aneroid Sensor
Anthrone Colorimeter
ASASP
ATSR
Autoanalyzer
AVHRR
AVNIR-Multi
AVNIR-Pan
Barometer
Bathymetric Chain
Bathyphotometer
Bolomet Radiometer
Bowen Ratio Apparatus
Bugette
Bugeye
Camera
Capacitive Sensor
Carbon Dioxide Sensor
Carbon Plate
Ceilometer
Chemiluminescence
Chemiluminescent
Chilled Mirror
CLAES
Climatology Database
Clinometer
Cloud Chamber
CTD Recorder
Current Meter
CZCS
Deiced Sensors
DIAL
Digitizer
Doppler Radar
Dry Bulb Thermometer
Eddy Correlation Apparatus
ERB-Scanner
ERBE-Nonscanner
ERBE-Scanner

Valids
ESMR
FID
Filter/Fluorescence
Flow Angle Sensors
FSSP
Gamma Radiation Detector
Gas Chromatograph
Gas Exchange System
Geophone
Geos-3 Altimeter
Geosat Altimeter
GFC Radiometer
Grab Sample/GC-ECD
Grab Samples/GC
Grab Samples/HPLC
Gust Probe
Gypsum Block
HALOE
HeNe LASER/Eddy Correlation
High Resolution Visible Sensor
HIS
Hot-Wire
HRDI
HRV-PAN
HRV-XS
HSRL
Human Observer
Hydrophone
Hygrometer
Icing Rate Detector
IKAR
Inclinometer
Infrared Radiometer
Infrared Thermometer
Integrating Nephelometer
Integrating Sphere
Ion Chromatography
IR Carbon Dioxide Analyzer
IR CO Analyzer
ISAMS
Isentropic Back Trajectory
Jw Probe
Kjeldahl Digestion

Valids
KVR-1000 High Resolution Camera
Landsat Multispectral Scanner
Landsat Thematic Mapper
Laser Altimeter
Leaf Area Meter
LIDAR
LIMS
Manual Interpretation
MAS
MCRW Refractometer
MESSR
Microwave Radiometer
Microwave Sounder
MIR
Mist Chamber/IC
MLS
Model Analysis
Modular Optoelectronic Scanner
Modular Multiband Radiometer
MOS
MSR
Multiband Leaf Radiometer
NDIR Gas Analyzer
Net Radiometer
Neutron Probe
Non-Dispersive IR
NS-001 Multispectral Scanner
NSCAT Scatterometer
OCTS
OLS
OPS
Optical Counter
Osmometer
OTD
Ozone Sensor
Ozonesonde
PAMS
Parabola Radiometer
PEM AXIS
PEM HEPS
PEM MEPS
Permeameter

Valids
PH Meter
Photoelectric Cell
Plant Canopy Analyzer
Plant Stress Monitor
Platinum Resistance
PMS 1D-C Probe
PMS 1D-P Probe
PMS 2D-C Probe
PMS 2D-P Probe
Poseidon Altimeter
PRARE
Pressure Chamber
Pressure Transducer
Propeller Anemometer
PRT-4
PRT-5
PRT-6
Psychrometer
Pyranometer
Pyrgeometer
Pyrheliometer
Quantum Sensor
Questionaire
RADAR Altimeter
Radio Altimeter
Radio Transmitter
Radiosonde
Reverse Flow
RF Antenna
RMS Pressure Var
RTD
Salinometer
Sampling Bottle
Seasat Altimeter
Seasat Scatterometer
SIRIS
SMMR
Snow Measuring Rod
SODAR
Soil Coring Device
Soil Depth Probe
Soil Gas Chamber
Soil Heat Flux Transducer

Valids
Soil Heat Probe
Soil Moisture Probe
Soil Pressure Plate
Soil Temperature Probe
Solar Monitor
SOLSTICE
Sonic Anemometer
Space Environment Monitor
Spaceborne Imaging Radar-C
Spatial Coordinate Apparatus
Spectrometer
Spectrophotometer
Spectroradiometer
SSM/I
SSM/T1
SSM/T2
SODAR
Steel Measuring Tape
Stilling Well
Stream Gauge
Stress Sensor
Sun Photometer
Sunfleck Ceptometer
SUSIM
SVISSR
SWIR
Tamms/Lyman-Alpha Hygrometer
Tamms/Nitric Oxide Chemilum
Tamms/Platinum Resistance
Tamms/Tunable Laser
Temperature Probes
Tethered Balloon
Thematic Mapper Simulator
Thermistor
Thermocouple
Tide Gauge
Time Domain Reflectometer
TIMS
TOMS
Topex Altimeter
Topex Microwave Radiometer
TOVS-MSU
TOVS-SSU

Valids
TOVS-HIRS
TOVS-MSU-E
TOVS-MSU-SK
TP/LIF
Transponder
Tunable Diode Laser
UV Absorption
Variable Capacitance
Video Camera
VIL
VISSR
VNIR
VTIR
Water Thermometer
Weighing Balance
Wet Bulb Thermometer
Wind Profiler
Wind Scatterometer
Windii
WSR-57S
WSR-74C
WSR-88D

3.20 SpatialKeyword

Description: The spatial keywords provide the capability of selecting place names to be used as search parameters, usually as an alternative to specifying latitudes and longitudes (which may not apply in some disciplines). For example, 'Tropical Region', 'Atlantic Ocean'.

Sources: [GCMD *Location Keywords*]

Default Valid:

Valids
Global
Global Land
Global Ocean
Polar
Antarctica
Arctic
Mid-Latitude
Equatorial
Southern Hemisphere
Western Hemisphere

Valids
Eastern Hemisphere
Northern Hemisphere
Africa
Southern Africa
West Africa
Central Africa
East Africa
Sahel
North Africa
Asia
Southern Asia
Southeast Asia
Western Asia
Central Asia
Eastern Asia
Europe
Southern Europe
Western Europe
Central Europe
Eastern Europe
Northern Europe
Eurasia
Middle East
Oceania
Australia
South America
Central America
Caribbean
North America
Afghanistan
Albania
Algeria
American Samoa
Andorra
Angola
Anguilla
Antigua and Barbuda
Argentina
Armenia
Aruba
Ascension Island

Valids
Azores
Australia
Austria
Azerbaijan
Bahamas
Bahrain
Bangladesh
Barbados
Belarus
Belgium
Belize
Benin
Bermuda
Bhutan
Bolivia
Bonaire
Bosnia and Herzegovina
Botswana
Bouvet Island
Brazil
Brunei Darussalam
Bulgaria
Burkina Faso
Burundi
Cameroon
Canada
Canary Islands
Cape Verde
Cayman Islands
Central African Republic
Ceuta
Chad
Channel Islands
Chile
China
Christmas Island
Cocos Islands
Colombia
Comoros
Congo
Cook Islands
Corsica

Valids
Costa Rica
Cote d'Ivoire
Croatia
Cuba
Curacao
Cyprus
Czech Republic
Denmark
Djibouti
Dominica
Dominican Republic
Ecuador
Egypt
El Salvador
Equatorial Guinea
Eritrea
Estonia
Ethiopia
Falkland Islands
Faeroe Islands
Fiji
Finland
France
French Guiana
French Polynesia
Gabon
Gambia
Georgia
Germany
Ghana
Gibraltar
Gough Island
Greece
Greenland
Grenada
Guadeloupe
Guam
Guatemala
Guinea
Guinea-Bissau
Guyana
Haiti

Valids
Hawaiian Islands
Honduras
Hungary
Iceland
India
Indonesia
Iran
Iraq
Ireland
Israel
Italy
Jamaica
Japan
Jordan
Kampuchea
Kazakhstan
Kenya
Kiribati
Korea, DPR
Korea, Republic
Kuwait
Kyrgyzstan
Laos
Latvia
Lebanon
Lesotho
Liberia
Libya
Liechtenstein
Lithuania
Luxembourg
Macao
Macedonia, FYR
Macquarie Island
Madagascar
Madeira
Malawi
Malaysia
Maldives
Mali
Malta
Marshall Islands

Valids
Martinique
Mauritania
Mauritius
Mexico
Micronesia
Moldova
Monaco
Mongolia
Montserrat
Morocco
Mozambique
Myanmar
Namibia
Nauru
Nepal
Netherlands
New Caledonia
New Zealand
Nicaragua
Niger
Nigeria
Niue
Norfolk Island
Norway
Northern Mariana Islands
Okinawa
Oman
Pakistan
Palau
Panama
Papua New Guinea
Paraguay
Peru
Philippines
Pitcairn Island
Poland
Portugal
Puerto Rico
Qatar
Reunion
Romania
Russian Federation

Valids
Rwanda
Saba
San Marino
Sao Tome and Principe
Sardinia
Saudi Arabia
Senegal
Seychelles
Sicily
Sierra Leone
Singapore
Slovakia
Slovenia
Solomon Islands
Somalia
South Africa
South Georgia Island
South Orkney Islands
South Sandwich Islands
South Shetland Islands
Spain
Sri Lanka
St Barthelemy
St Eustatius
St Helena
St Kitts and Nevis
St Lucia
St Maarten
St Martin
St Pierre and Miquelon
St Vincent and the Grenadines
Sudan
Suriname
Svalbard
Swaziland
Sweden
Switzerland
Syria
Taiwan
Tajikistan
Tanzania
Thailand

Valids
Togo
Tokelau
Tonga
Trinidad and Tobago
Tristan da Cunha
Tunisia
Turkey
Turkmenistan
Turks and Caicos Islands
Tuvalu
Uganda
Ukraine
United Arab Emirates
United Kingdom
United States of America
Uruguay
Uzbekistan
Vanuatu
Vatican City
Venezuela
Viet Nam
Virgin Islands
Wake Island
Wallis and Futuna Islands
Western Samoa
Yemen
Yugoslavia
Zaire
Zambia
Zanzibar
Zimbabwe
Atlantic Ocean
North Atlantic Ocean
South Atlantic Ocean
Arctic Ocean
Indian Ocean
Pacific Ocean
North Pacific Ocean
South Pacific Ocean
Southern Ocean

Valids
Arabian Sea
Baltic Sea
Bering Sea
Black Sea
Caribbean Sea
East China Sea
Gulf of Alaska
Gulf of Mexico
Hudson Bay
Mediterranean Sea
North Sea
Persian Gulf
Red Sea
Sea of Okhotsk
Sea of Japan
South China Sea
Yellow Sea
Aral Sea
Caspian Sea
Great Bear Lake
Great Slave Lake
Great Lakes
Lake Baykal
Lake Chad
Lake Malawi
Lake Tanganyika
Lake Victoria
Core
Mantle
Crust
Sea Floor
Sea Surface
Land Surface
Boundary Layer
Troposphere
Stratosphere
Mesosphere
Thermosphere
Ionosphere

Valids
Chromosphere
Corona
High Latitude Magnetosphere
Inner Magnetosphere
Magnetosphere (other)
Magnetotail
Photosphere

3.21 SpatialResolution

Description: The minimum distance between two adjacent geographic points.

Sources: [CEO]

Default Valid:

Valids
< 3 meters
3-10 meters
10-30 meters
30-100 meters
100-1 000 meters
> 1 000 meters

3.22 TemporalKeyword

Description: The name of a time period covered by a collection. For example, 'Summer'.

Sources: [ECS]

Default Valid:

Valids
Cambrian
Carboniferous
Cenozoic
Cretaceous
Devonian
Eocene
Holocene
Jurassic
Mesozoic
Miocene
Oligocene

Valids
Ordovician
Paleocene
Paleozoic
Permian
Pleistocene
Pliocene
Precambrian
Quaternary
Silurian
Tertiary
Triassic

3.23 ThemeKeyword

Description: Controlled keyword list to define the theme (e.g. discipline, topic) covered by a collection

Sources: [GCMD *Parameter Keywords*]

Default Valid:

The following four-level keyword list selected is inserted in the ThemeKeyword. The different levels are separated by ">".

CATEGORY	*TOPIC*	*TERM*	*VARIABLE*
EARTH SCIENCE	*ATMOSPHERE*	Aerosols	*Aerosol Backscatter*
			Aerosol Extinction
			Aerosol Particle Properties
			Aerosol Radiance
			Carbonaceous Aerosols
			Cloud Condensation Nuclei
			Dust/Ash
			Nitrate Particles
			Organic Particles
			Particulate Matter
			Sulfate Particles
		Air Quality	*Carbon Monoxide*
			Emissions
			Lead
			Nitrogen Oxides
			Particulates
			Smog
			Sulfur Oxides
			Tropospheric Ozone
			Turbidity

	Visibility
	Volatile Organic Compounds
Altitude	*Barometric Altitude*
	Geopotential Height
	Ground Height
	Mixing Height
	Station Height
	Stratopause
	Tropopause
Atmospheric Chemistry	*Carbon Dioxide*
	Carbon Monoxide
	Carbonyl Sulfide
	Chlorine Monoxide
	Chlorofluorocarbons
	Dimethyl Sulfide
	Halocarbons
	Hydrochlorofluorocarbons
	Hydrofluorocarbons
	Hydroxyl
	Methane
	Nitric Acid
	Nitrogen
	Nitrogen Dioxide
	Nitrogen Oxides
	Nitrous Oxide
	Non-Methane Hydrocarbons
	Oxygen
	Ozone
	Photolysis Rates
	Sulfur Dioxide
	Sulfur Oxides
	Trace Elements
	Trace Gases
	Volatile Organic Compounds
Atmospheric Phenomena	*Cyclones*
	Drought
	Freeze
	Frost
	Hurricanes
	Lightning
	Monsoons
	Storms
	Tornados
	Typhoons
Atmospheric Pressure	*Anticyclones/Cyclones*

	Atmospheric Pressure
	Differential Pressure
	Gravity Wave
	Hydrostatic Pressure
	Oscillations
	Planetary Boundary Layer
	Pressure Anomalies
	Pressure Tendency
	Pressure Thickness
	Sea Level Pressure
	Static Pressure
	Surface Pressure
Atmospheric Temperature	*Air Temperature*
	Atmospheric Stability
	Boundary Layer Temperature
	Degree Days
	Deiced Temperature
	Inversion Height
	Maximum/Minimum Temperature
	Potential Temperature
	Skin Temperature
	Static Temperature
	Surface Air Temperature
	Temperature Anomalies
	Virtual Temperature
Atmospheric Water Vapor	*Condensation*
	Dew Point
	Evaporation
	Evapotranspiration
	Precipitable Water
	Sublimation
	Water Vapor
Atmospheric Winds	*Convergence/Divergence*
	Convection
	Streamfunctions
	Surface Winds
	Turbulence
	Upper Level Winds
	Vertical Wind Motion
	Vorticity
	Wind Chill
	Wind Shear
	Wind Stress
Clouds	*Cloud Amount*
	Cloud Ceiling

	Cloud Condensation Nuclei
	Cloud Emissivity
	Cloud Forcing
	Cloud Height
	Cloud Ice
	Cloud Liquid Water
	Cloud Optical Thickness
	Cloud Precipitable Water
	Cloud Top Pressure
	Cloud Top Temperature
	Cloud Types
	Cloud Vertical Distribution
	Droplet Concentration/Size
	Fog
	Mesoscale Convective Complex
	Nucleation
Precipitation	*Acid Rain*
	Droplet Size
	Freezing Rain
	Hail
	Liquid Water Equivalent
	Precipitation Amount
	Precipitation Anomalies
	Precipitation Rate
	Rain
	Sleet
	Snow
Radiation Budget	*Absorption*
	Albedo
	Anisotropy
	Atmospheric Emitted Radiation
	Atmospheric Heating
	Emissivity
	Heat Flux
	Longwave Radiation
	Incoming Shortwave Radiation
	Irradiance
	Net Radiation
	Optical Thickness
	Outgoing Longwave Radiation
	Radiative Flux
	Radiative Forcing
	Reflectance
	Scattering
	Shortwave Radiation

		Solar Radiation
		Sunshine
		Transmittance
		Ultraviolet Radiation
BIOSPHERE	Aquatic Habitat	*Benthic Habitat*
		Coastal Habitat
		Estuarine Habitat
		Lakes
		Pelagic Habitat
		Reef Habitat
		Rivers/Stream Habitat
		Saline Lakes
	Ecological Dynamics	*Adaptation*
		Bioaccumulation
		Bioavailability
		Biogeochemical Cycles
		Bioluminescence
		Biomass
		Chemosynthesis
		Community Structure
		Competition
		Consumption
		Decomposition
		Diurnal Movements
		Dominance
		Endangered Species
		Excretion
		Extinction
		Feeding Habitat
		Fire Characteristics
		Fire Occurance
		Food-web Dynamics
		Herbivory
		Life History
		Migratory Rates/Routes
		Mutation
		Mutualism
		Nutrient Cycling
		Oxygen Demand
		Parasitism
		Photosynthesis
		Population Dynamics
		Post-Breeding
		Predation
		Primary Production

	Range Changes
	Respiration
	Scavenging
	Secondary Production
	Selection
	Succession
	Survival
	Symbiosis
	Toxicity
	Trophic Dynamics
Fungi	*Biomass*
	Molds
	Mushrooms
	Slime molds
	Sporozoans
	Yeast
Microbiota	*Amoebae*
	Bacteria
	Biomass
	Blue-Green Algae
	Chlorophyll
	Ciliates
	Coccolithophore
	Diatoms
	Flagellates
	Foraminifers
	Microalgae
	Microphyte
	Phytoplankton
	Pigments
	Plankton
	Protist
	Radiolarians
	Zooplankton
Terrestrial Habitat	*Agricultural Land*
	Alpine/Tundra
	Beaches
	Caves
	Desert
	Dunes
	Forest Habitat
	Grassland
	Islands
	Montane Habitat
	Savanna

	Shrubland/Scrub
	Sinkholes
	Urban Land
	Wetlands
Vegetation	*Algae*
	Biomass
	Canopy Characteristics
	Carbon
	Chlorophyll
	Conifers
	Crops
	Crown
	Deciduous Vegetation
	Domesticated Plants
	Dominant Species
	Exotic Vegetation
	Ferns
	Flowering Plants
	Forest Composition/Structure
	Herbivory
	Importance Value
	Indigenous Vegetation
	Leaf Characteristics
	Lichens
	Litter Characteristics
	Macroalgae
	Macrophyte
	Mosses
	Nitrogen
	Nutrients
	Phosphorus
	Photosynth. Active Radiation
	Phytoplankton
	Pigments
	Plant Characteristics
	Pollen
	Tree Rings
	Vegetation Cover
	Vegetation Index
	Vegetation Species
Wetlands	*Estuarine Wetlands*
	Lacustrine Wetlands
	Marine
	Marshes
	Palustrine Wetlands

		Peatlands
		Riparian Wetlands
		Swamps
	Zoology	*Amphibians*
		Anemones
		Arachnids
		Arthropods
		Biomass
		Birds
		Centipedes
		Corals
		Crustaceans
		Domesticated Animals
		Echinoderms
		Exotic Species
		Fish
		Flatworms
		Indigenous Species
		Insects
		Invertebrates
		Jellyfish
		Mammals
		Millipedes
		Molluscs
		Reptiles
		Roundworms
		Segmented worms
		Sponges
		Vertebrates
		Zooplankton
CRYOSPHERE	Snow/Ice	*Ablation*
		Avalanche
		Depth Hoar
		Freeze/Thaw
		Frost
		Glaciers
		Ice Depth/Thickness
		Ice Extent
		Ice Growth/Melt
		Ice Sheet Elevation
		Ice Sheets
		Ice Velocity
		Lake Ice
		Permafrost
		River Ice

		Snow Cover
		Snow Depth
		Snow Energy Balance
		Snow Facies
		Snow Melt
		Snow Water Equivalent
		Snow/Ice Temperature
		Whiteout
	Sea Ice	*Brine Production*
		Divergence
		Heat Flux
		Ice Age
		Ice Compactness
		Ice Concentration
		Ice Deformation
		Ice Depth/Thickness
		Ice Drift
		Ice Edges
		Ice Extent
		Ice Floes
		Ice Growth/Melt
		Ice Motion
		Ice Pack
		Ice Roughness
		Ice Temperature
		Ice Types
		Ice Velocity
		Icebergs
		Leads
		Polynyas
HUMAN DIMENSIONS	Attitudes,Preferences,Behavior	*Consumer Behavior*
		Social Behavior
	Boundaries	*Administrative Divisions*
		Political Divisions
		Surveys
	Environmental Effects	*Acid Deposition*
		Agriculture
		Aquaculture
		Biomass Burning
		Contaminants
		Deforestation
		Desertification
		Eutrophication
		Food Production
		Fossil Fuel Burning

		Gas Flaring
		Heavy Metals
		Industrial Emissions
		Industrialization
		Irrigation
		Mine Drainage
		Nuclear Radiation
		Oil Spill
		Reforestation
		Restoration
		Sewage
		Urbanization
		Water Management
	Human Health	*Anatomical Parameters*
		Diseases
		Physiological Parameters
		Public Health
		Vital Statistics
	Infrastructure	*Buildings*
		Communications
		Cultural Features
		Electricity
		Pipelines
		Transportation
HYDROSPHERE	Ground Water	*Aquifers*
		Discharge/Flow
		Dispersion
		Drainage
		Groundwater Chemistry
		Groundwater Quality
		Infiltration
		Land Subsidence
		Percolation
		Saltwater Intrusion
		Springs
		Water Table
	Snow/Ice	*Ablation*
		Avalanche
		Depth Hoar
		Freeze/Thaw
		Frost
		Glaciers
		Ice Depth/Thickness
		Ice Extent
		Ice Growth/Melt

	Ice Sheet Elevation
	Ice Sheets
	Ice Velocity
	Lake Ice
	Permafrost
	River Ice
	Snow Cover
	Snow Depth
	Snow Energy Balance
	Snow Facies
	Snow Melt
	Snow Water Equivalent
	Snow/Ice Temperature
	Whiteout
Surface Water	*Aquifer Recharge*
	Carbon Dioxide
	Discharge/Flow
	Drainage
	Floods
	Hydropattern
	Hydroperiod
	Inundation
	Lakes
	Nitrous Oxide
	Rivers/Streams
	Runoff
	Stage Height
	Stream Chemistry
	Total Surface Water
	Water Channels
	Water Depth
	Water Yield
	Wetlands
Water Quality	*Acid Deposition*
	Alkalinity
	Benthic Index
	Carcinogens
	Chlorophyll
	Conductivity
	Contaminants
	Dissolved Gases
	Dissolved Solids
	Hydrocarbons
	Inorganic Matter
	Light Transmission

		Nitrogen Compounds
		Nutrients
		Organic Matter
		Oxygen
		pH
		Radioisotopes
		Suspended Solids
		Toxic Chemicals
		Trace Metals
		Turbidity
		Water Temperature
LAND SURFACE	Erosion/Sedimentation	*Degradation*
		Entrainment
		Erosion
		Landslides
		Sedimentation
		Sediment Chemistry
		Sediment Composition
		Sediment Transport
		Stratigraphic Sequence
		Suspended Solids
		Weathering
	Land Temperature	*Land Heat Capacity*
		Skin Temperature
		Land Surface Temperature
	Land Use/Land Cover	*Land Classes*
		Land Cover
		Land Management
		Land Productivity
		Land Resources
		Land Tenure
	Soils	*Alkalinity*
		Dendrification Rate
		Hydraulic Conductivity
		Organic Matter
		Permafrost
		Soil Absorption
		Soil Bulk Density
		Soil Chemistry
		Soil Color
		Soil Compaction
		Soil Consistence
		Soil Depth
		Soil Fertility
		Soil Heat Budget

		Soil Horizons/Profile
		Soil Impedence
		Soil Mechanics
		Soil Moisture
		Soil Plasticity
		Soil Porosity
		Soil Productivity
		Soil Respiration
		Soil Structure
		Soil Temperature
		Soil Texture
		Soil Types
		Thermal Conductivity
	Surface Radiative Properties	*Emissivity*
		Reflectance
		Thermal Properties
	Topography	*Contours*
		Landforms
		Relief
		Surface Roughness
		Terrain Elevation
OCEANS	Bathymetry	*Water Depth*
		Seafloor Topography
	Coastal Processes	*Barrier Islands*
		Beaches
		Coastal Elevation
		Coral Reefs
		Deltas
		Dunes
		Erosion
		Estuaries
		Fjords
		Inlets
		Intertidal Zone
		Lagoons
		Local Subsidence Trends
		Longshore Currents
		Mangroves
		Marshes
		Rocky Coasts
		Saltwater Intrusion
		Sea Level Rise
		Sea Surface Height
		Sediment Transport
		Sedimentation

	Shoals
	Shoreline Displacement
	Storm Surge
	Shorelines
	Tidal Height
Marine Geophysics	*Abyssal Hills/Plains*
	Benthic Heat Flow
	Continental Drift
	Continental Rises/Slopes
	Continental Shelves
	Fracture Zones
	Guyots
	Hydrothermal Vents
	Island Arcs
	Magnetic Anomalies
	Marine Gravity Field
	Marine Magnetics
	Mid-Ocean Ridges
	Ocean Plateaus/Ridges
	Rift Valleys
	Seafloor Spreading
	Seamounts
	Subduction
	Submarine Canyons
	Trenches
Marine Sediments	*Bioturbation*
	Carbonate Sediments
	Diagenesis
	Evaporites
	Hydrogenous Sediments
	Particle Flux
	Sedimentation
	Sediment Composition
	Sediment Grain Size
	Sediment Transport
	Siliceous Sediments
	Stratigraphic Sequence
	Suspended Solids
	Terrigenous Sediments
	Turbidity
Ocean Acoustics	*Acoustic Attenuation*
	Acoustic Frequency
	Acoustic Reflectivity
	Acoustic Scattering
	Acoustic Tomography

	Acoustic Velocity
	Ambient Noise
Ocean Chemistry	*Alkalinity*
	Ammonia
	Biogeochemical Cycles
	Biomedical Chemicals
	Carbon
	Carbon Dioxide
	Carbonate
	Chlorophyll
	Dissolved Gases
	Dissolved Solids
	Hydrocarbons
	Inorganic Carbon
	Inorganic Matter
	Nitrate
	Nitric Acid
	Nitrite
	Nitrogen
	Nitrogen Dioxide
	Nitrous Oxide
	Nutrients
	Ocean Tracers
	Organic Carbon
	Organic Matter
	Oxygen
	pH
	Phosphate
	Pigments
	Radiocarbon
	Radioisotopes
	Silicate
	Stable Isotopes
	Suspended Solids
	Trace Elements
Ocean Circulation	*Advection*
	Buoy Position
	Convection
	Diffusion
	Downwelling
	Eddies
	Fronts
	Gyres
	Instability
	Kinetic Energy

	Momentum
	Ocean Currents
	Ocean Mixed Layer
	Overturning
	Salt Transport
	Stability
	Thermohaline Circulation
	Turbulence
	Upwelling
	Vorticity
	Water Masses
	Wind-Driven Circulation
Ocean Heat Budget	*Advection*
	Bowen Ratio
	Condensation
	Conduction
	Convection
	Diffusion
	Evaporation
	Heat Flux
	Heating Rate
	Longwave Radiation
	Shortwave Radiation
Ocean Optics	*Aphotic Zone*
	Backscatter
	Bioluminescence
	Extinction Coefficients
	Fluorescence
	Gelbstoff
	Irradiance
	Light Attenuation
	Light Transmission
	Ocean Color
	Optical Depth
	Photic Zone
	Photosynth. Active Radiation
	Secchi Depth
	Turbidity
	Water Leaving Radiance
Ocean Pressure	*Baroclinic Mode*
	Barotropic Mode
	Ocean Pressure
	Sea Level Pressure
Ocean Temperature	*Ocean Mixed Layer*
	Potential Temperature

	Sea Surface Temperature
	Water Temperature
	Thermocline
Ocean Water Budget	*Advection*
	Convection
	Convergence/Divergence
	Diffusion
	Fresh Water Flux
Ocean Waves	*Fetch*
	Internal Waves
	Sea State
	Seiches
	Significant Wave Height
	Surf Beat
	Swells
	Tsunamis
	Wave Speed/Direction
	Wave Frequency
	Wave Height
	Wave Period
	Wave Spectra
	Wave Length
	Wave Types
	Wind Waves
Ocean Winds	*Convergence/Divergence*
	Surface Winds
	Turbulence
	Vertical Wind Motion
	Vorticity
	Wind Chill
	Wind Shear
	Wind Stress
Salinity/Density	*Conductivity*
	Density
	Desalinization
	Halocline
	Potential Density
	Pycnocline
	Salinity
	Salt Transport
Sea Ice	*Brine Production*
	Divergence
	Heat Flux
	Ice Age
	Ice Compactness

		Ice Concentration
		Ice Deformation
		Ice Depth/Thickness
		Ice Drift
		Ice Edges
		Ice Extent
		Ice Floes
		Ice Growth/Melt
		Ice Motion
		Ice Pack
		Ice Roughness
		Ice Temperature
		Ice Types
		Ice Velocity
		Icebergs
		Leads
		Polynyas
	Sea Surface Height	*Sea Surface Height*
	Tides	*Storm Surge*
		Tidal Components
		Tidal Currents
		Tidal Height
		Tidal Range
PALEOCLIMATE	Geologic Time	*Cambrian*
		Carboniferous
		Cenozoic
		Cretaceous
		Devonian
		Eocene
		Holocene
		Jurassic
		Mesozoic
		Miocene
		Oligocene
		Ordovician
		Paleocene
		Paleozoic
		Permian
		Pleistocene
		Pliocene
		Precambrian
		Quaternary
		Silurian
		Tertiary
		Triassic

	Ice Core Records	*Carbon Dioxide*
		Ice Core Air Bubbles
		Ions
		Isotopes
		Methane
		Nitrous Oxide
		Volcanic Deposits
	Land Records	*Cave Deposits*
		Glaciation
		Isotopes
		Loess
		Macrofossils
		Microfossils
		Paleomagnetic Data
		Paleosols
		Paleovegetation
		Pollen
		Radiocarbon
		Stratigraphic Sequence
		Tree Rings
		Volcanic Deposits
	Ocean/Lake Records	*Coral Deposits*
		Isotopes
		Lake Levels
		Macrofossils
		Microfossils
		Oxygen Isotopes
		Paleomagnetic Data
		Radiocarbon
		Sediments
		Stratigraphic Sequence
		Varve Deposits
RADIANCE OR IMAGERY	Gamma Ray	*Gamma Ray*
	Infrared Wavelengths	*Brightness Temperature*
		Infrared Flux
		Infrared Imagery
		Reflected Infrared
		Sensor Counts
		Thermal Infrared
	Microwave	*Antenna Temperature*
		Brightness Temperature
		Microwave Imagery
		Sensor Counts
	Radar	*Doppler Speed*
		Radar Backscatter

		Radar Cross-Section
		Radar Imagery
		Radar Reflectivity
		Sensor Counts
		Sigma Naught
	Radio Wave	*Radio Wave*
	Ultraviolet Wavelengths	*Sensor Counts*
		Ultraviolet Flux
	Visible Wavelengths	*Sensor Counts*
		Visible Flux
		Visible Imagery
	X-Ray	*X-Ray*
	Engineering/Sensor Quantities	*Dome Temperature*
		Phase and Amplitude
		Sink Temperature
		Ultraviolet Sensor Temperature
SOLAR PHYSICS	Solar Activity	*Corona Holes*
		Coronal Properties
		Filaments
		Solar Active Regions
		Solar Events
		Solar Flares
		Solar Imagery
		Solar Oscillations
		Solar Prominences
		Sunspots
		Synoptic Maps
		Velocity Fields
	Solar Energetic Particles	*Alpha Particles*
		Particle Composition
		Particle Density
		Differential Flux
		Particle Distribution Functions
		Electron Flux
		Energetic Particles
		Energy Deposition
		Particle Flux
		Heavy Ions
		Proton Flux
		Particle Speed
		Particle Temperature
SOLID EARTH	Geochemistry	*Chemical Weathering*
		Fixation
		Hydration
		Ion Exchange

	Isotopes
	Oxidation/Reduction
Geodetics/Gravity	*Control Surveys*
	Crustal Motion
	Gravity
	Ocean Crust Deformation
	Polar Motion
	Reference Systems
	Rotational Variations
	Satellite Orbits
Geomagnetism	*Geomagnetic Forecasts*
	Geomagnetic Indicies
	Geomagnetic Induction
	Magnetic Anomalies
	Magnetic Declination
	Magnetic Inclination
	Magnetic Intensity
	Paleomagnetism
	Reference Fields
Geophysical Fields	*Electric Field*
	Gravity Field
	Magnetic Field
Geothermal	*Geothermal Energy*
	Geothermal Temperature
Natural Resources	*Coal*
	Metals
	Natural Gas
	Non-Metallic Minerals
	Petroleum
	Radioactive Elements
Rocks/Minerals	*Age Determinations*
	Bedrock Lithology
	Crystals
	Igneous Rocks
	Metamorphic Rocks
	Meteorites
	Minerals
	Sedimentary Rocks
Seismology	*Earthquake Dynamics*
	Earthquake Predictions
	Earthquake Occurrences
	Seismic Body Waves
	Seismic Profile
	Seismic Surface Waves
Tectonics	*Continental Tectonics*

		Convergence/Divergence
		Core Processes
		Crustal Motion
		Faults
		Folds
		Isostatic Rebound
		Neotectonics
		Stratigraphic Sequence
		Stress
	Volcanoes	*Eruption Dynamics*
		Lava
		Magma
		Pyroclastics
		Volcanic Ash/Dust
		Volcanic Gases

3.24 UpdateFrequency

Description: The frequency with which changes and additions are made to the data set after the initial data set is completed.

Sources: [ECS]

Default Valid:

Valids	**Description**
Continually	*The collection is updated more frequently than once a day.*
Daily	*The collection is updated once per day, every day.*
Weekly	*The collection is updated once per week.*
Monthly	*The collection is updated once per calendar month.*
Annually	*The collection is updated once per year; the first date of update is usually one year after the first date of receipt of data from this collection's source.*
Unknown	
As Needed	*The collection is updated as determined by the Principal Investigator or according to on demand requests from end users*
Irregular	*The collection is updated on an unscheduled but periodic basis.*
None Planned	*The collection is complete and therefore will not be updated further.*